

Appendix E Air Quality/GHG Modeling

Appendices

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Regional Construction Emissions Worksheet - Unmitigated

Building Demolition			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Off-Road		0.8987	10.5216	7.8442	0.0153	0.4979	0.4581
	Total		0.8987	10.5216	7.8442	0.0153	0.4979	0.4581
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
	Worker		0.0393	0.0531	0.5582	1.67E-03	0.1349	0.0367
	Total		0.0726	0.3486	1.0042	2.53E-03	0.1629	0.0477
TOTAL			0.9713	10.8702	8.8484	0.0178	0.6608	0.5058

Asphalt Demolition			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Off-Road		0	0	0	0	0	0
	Total		0	0	0	0	0	0
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
	Worker		0	0	0	0	0	0
	Total		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
TOTAL			0.0333	0.2955	0.4461	0.0009	0.0280	0.0110

2018 BD + AD	1.0046	11.1657	9.2945	0.0187	0.6888	0.5168
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Building Demo Debris Haul			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Fugitive Dust						5.0314	0.7618
	Off-Road		0	0	0	0	0	0
	Total		0	0	0	0	5.0314	0.7618
Offsite								
	Hauling		0.9743	13.3422	11.8251	0.0403	1.1018	0.4385
	Vendor		0	0	0	0	0	0
	Worker		0	0	0	0	0	0
	Total		0.9743	13.3422	11.8251	0.0403	1.1018	0.4385
TOTAL			0.9743	13.3422	11.8251	0.0403	6.1332	1.2003

Asphalt Demo Debris Haul			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Fugitive Dust						1.9821	0.3001
	Off-Road		0	0	0	0	0	0
	Total		0	0	0	0	1.9821	0.3001
Offsite								
	Hauling		0.3838	5.256	4.6584	0.0159	0.4341	0.1728
	Vendor		0	0	0	0	0	0
	Worker		0	0	0	0	0	0
	Total		0.3838	5.256	4.6584	0.0159	0.4341	0.1728
TOTAL			0.3838	5.2560	4.6584	0.0159	2.4162	0.4729

2018 BD + AD + BDDH + ADDH	2.3627	29.7639	25.7780	0.0749	9.2382	2.1900
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Site Preparation			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Fugitive Dust					0	0	
	Off-Road		0.2689	2.6568	2.3608	3.14E-03	0.1882	0.1732
	Total		0.2689	2.6568	2.3608	3.14E-03	0.1882	0.1732
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
	Worker		9.08E-03	0.0123	0.1288	3.90E-04	0.0311	8.46E-03
	Total		0.0423	0.3077	0.5749	1.25E-03	0.0592	0.0195
TOTAL			0.3112	2.9645	2.9357	0.0044	0.2474	0.1927

Site Preparation Soil Haul			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Fugitive Dust						4.83E-03	7.30E-04
	Off-Road		0	0	0	0	0	0
	Total		0	0	0	0	4.83E-03	7.30E-04
Offsite								
	Hauling		0.2036	2.9861	2.3348	9.11E-03	0.2502	0.0995
	Vendor		0	0	0	0	0	0
	Worker		0	0	0	0	0	0
	Total		0.2036	2.9861	2.3348	9.11E-03	0.2502	0.0995
TOTAL			0.2036	2.9861	2.3348	0.0091	0.2550	0.1002
2018 SP + SPSH			0.5148	5.9506	5.2705	0.0135	0.5024	0.2929

Mass Excavation			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Fugitive Dust						0	0
	Off-Road		0.4002	4.8067	2.6034	8.71E-03	0.166	0.1527
	Total		0.4002	4.8067	2.6034	8.71E-03	0.166	0.1527
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
	Worker		9.08E-03	0.0123	0.1288	3.90E-04	0.0311	8.46E-03
	Total		0.0423	0.3077	0.5749	1.25E-03	0.0592	0.0195
TOTAL			0.4425	5.1144	3.1783	0.0100	0.2252	0.1722

Utility Trenching			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Off-Road		0.2551	2.5213	2.2404	2.98E-03	0.1786	0.1643
	Total		0.2551	2.5213	2.2404	2.98E-03	0.1786	0.1643
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
	Worker		9.08E-03	0.0123	0.1288	3.90E-04	0.0311	8.46E-03
	Total		0.0423	0.3077	0.5749	1.25E-03	0.0592	0.0195
TOTAL			0.2974	2.8290	2.8153	0.0042	0.2378	0.1838
2018 ME + UT			0.7399	7.9434	5.9936	0.0142	0.4630	0.3560

Mass Excavation Soil Haul

		2018	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Fugitive Dust						0.0777	0.0118
	Off-Road		0	0	0	0	0	0
	Total		0	0	0	0	0.0777	0.0118
Offsite	Hauling		3.2722	47.9915	37.5228	0.1464	4.0216	1.5996
	Vendor		0	0	0	0	0	0
	Worker		0	0	0	0	0	0
	Total		3.2722	47.9915	37.5228	0.1464	4.0216	1.5996
TOTAL			3.2722	47.9915	37.5228	0.1464	4.0993	1.6114
2018 ME + UT + MESH			4.0121	55.9349	43.5164	0.1606	4.5623	1.9674

Fine Grading

		2018	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Fugitive Dust						0	0
	Off-Road		0.2689	2.6568	2.3608	3.14E-03	0.1882	0.1732
	Total		0.2689	2.6568	2.3608	3.14E-03	0.1882	0.1732
Offsite	Hauling		0	0	0	0	0	0
	Vendor		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
	Worker		9.08E-03	0.0123	0.1288	3.90E-04	0.0311	8.46E-03
	Total		0.0423	0.3077	0.5749	1.25E-03	0.0592	0.0195
TOTAL			0.3112	2.9645	2.9357	0.0044	0.2474	0.1927
2018 UT + FG			0.6086	5.7935	5.7510	0.0086	0.4852	0.3765

Fine Grading Soil Haul

		2018	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Fugitive Dust						0.0242	3.66E-03
	Off-Road		0	0	0	0	0	0
	Total		0	0	0	0	0.0242	3.66E-03
Offsite	Hauling		1.018	14.9307	11.6738	0.0456	1.2512	0.4977
	Vendor		0	0	0	0	0	0
	Worker		0	0	0	0	0	0
	Total		1.018	14.9307	11.6738	0.0456	1.2512	0.4977
TOTAL			1.0180	14.9307	11.6738	0.0456	1.2754	0.5014
2018 UT + FG + FGSH			1.6266	20.7242	17.4248	0.0542	1.7606	0.8779

Building Construction

		2018	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Off-Road		1.7645	17.9151	14.7097	0.0255	0.8743	0.8357
	Total		1.7645	17.9151	14.7097	0.0255	0.8743	0.8357
Offsite	Hauling		0	0	0	0	0	0
	Vendor		0.2494	2.216	3.3454	6.43E-03	0.2101	0.0825
	Worker		0.9774	1.3191	13.8679	0.0415	3.3523	0.9107
	Total		1.2269	3.5351	17.2133	0.0479	3.5624	0.9932
TOTAL			2.9914	21.4502	31.9230	0.0734	4.4367	1.8289

Building Construction			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2019						
	Off-Road		1.6208	16.3313	14.2972	0.0255	0.7838	0.7487
	Total		1.6208	16.3313	14.2972	0.0255	0.7838	0.7487
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.2327	2.0544	3.1968	6.44E-03	0.2078	0.0804
	Worker		0.9136	1.2224	12.9124	0.0417	3.3525	0.9109
	Total		1.1463	3.2768	16.1092	0.0481	3.5603	0.9913
TOTAL			2.7671	19.6081	30.4064	0.0736	4.3441	1.7400

Building Construction			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2020						
	Off-Road		1.4847	14.6789	13.7372	0.0255	0.6942	0.663
	Total		1.4847	14.6789	13.7372	0.0255	0.6942	0.663
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.2142	1.7925	3.0555	6.43E-03	0.205	0.0778
	Worker		0.8642	1.1412	12.1064	0.0417	3.3526	0.9111
	Total		1.0784	2.9337	15.1619	0.0481	3.5576	0.9888
TOTAL			2.5631	17.6126	28.8991	0.0736	4.2518	1.6518

Asphalt Paving			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2020						
	Off-Road		0.5096	3.5855	3.8232	4.88E-03	0.2403	0.2211
	Paving		0.0393				0	0
	Total		0.5489	3.5855	3.8232	4.88E-03	0.2403	0.2211
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0	0	0	0	0	0
	Worker		0.0348	0.0459	0.4873	1.68E-03	0.1349	0.0367
	Total		0.0348	0.0459	0.4873	1.68E-03	0.1349	0.0367
TOTAL			0.5837	3.6314	4.3105	0.0066	0.3752	0.2578

Architectural Coating			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2020						
	Archit. Coating		75.7623				0	0
	Off-Road		0	0	0	0	0	0
	Total		75.7623	0	0	0	0	0
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0	0	0	0	0	0
	Worker		0.1712	0.2261	2.3988	8.25E-03	0.6643	0.1805
	Total		0.1712	0.2261	2.3988	8.25E-03	0.6643	0.1805
TOTAL			75.9335	0.2261	2.3988	0.0083	0.6643	0.1805

2020 BC + AP + AC			79.0803	21.4701	35.6084	0.0884	5.2913	2.0901
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Finishing/Landscaping			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2020						
	Off-Road		0.2117	2.1269	2.3032	3.14E-03	0.1345	0.1237
	Paving		0.0175				0	0
	Total		0.2291	2.1269	2.3032	3.14E-03	0.1345	0.1237
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0	0	0	0	0	0
	Worker		8.03E-03	0.0106	0.1124	3.90E-04	0.0311	8.46E-03
	Total		8.03E-03	0.0106	0.1124	3.90E-04	0.0311	8.46E-03
TOTAL			0.2371	2.1375	2.4156	0.0035	0.1656	0.1322
2020 BC + FL			2.80023	19.75010	31.31470	0.07713	4.41740	1.78396
MAX DAILY			79.08	55.93	43.52	0.16	9.24	2.19
Regional Thresholds			75	100	550	150	150	55
Exceeds Thresholds?			Yes	No	No	No	No	No

Regional Construction Emissions Worksheet - Mitigated

Building Demolition			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Off-Road		0.8987	10.5216	7.8442	0.0153	0.4979	0.4581
	Total		0.8987	10.5216	7.8442	0.0153	0.4979	0.4581
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
	Worker		0.0393	0.0531	0.5582	1.67E-03	0.1349	0.0367
	Total		0.0726	0.3486	1.0042	2.53E-03	0.1629	0.0477
TOTAL			0.9713	10.8702	8.8484	0.0178	0.6608	0.5058

Asphalt Demolition			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Off-Road		0	0	0	0	0	0
	Total		0	0	0	0	0	0
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
	Worker		0	0	0	0	0	0
	Total		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
TOTAL			0.0333	0.2955	0.4461	0.0009	0.0280	0.0110

2018 BD + AD	1.0046	11.1657	9.2945	0.0187	0.6888	0.5168
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Building Demo Debris Haul			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Fugitive Dust						2.1563	0.3265
	Off-Road		0	0	0	0	0	0
	Total		0	0	0	0	2.1563	0.3265
Offsite								
	Hauling		0.4176	5.7181	5.0679	0.0173	0.4722	0.188
	Vendor		0	0	0	0	0	0
	Worker		0	0	0	0	0	0
	Total		0.4176	5.7181	5.0679	0.0173	0.4722	0.188
TOTAL			0.4176	5.7181	5.0679	0.0173	2.6285	0.5145

Asphalt Demo Debris Haul			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Fugitive Dust						0.8495	0.1286
	Off-Road		0	0	0	0	0	0
	Total		0	0	0	0	0.8495	0.1286
Offsite								
	Hauling		0.1645	2.2526	1.9965	6.80E-03	0.186	0.074
	Vendor		0	0	0	0	0	0
	Worker		0	0	0	0	0	0
	Total		0.1645	2.2526	1.9965	6.80E-03	0.186	0.074
TOTAL			0.1645	2.2526	1.9965	0.0068	1.0355	0.2026

2018 BD + AD + BDDH + ADDH	1.5867	19.1364	16.3589	0.0428	4.3528	1.2339
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Site Preparation			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Fugitive Dust					0	0	
	Off-Road		0.2689	2.6568	2.3608	3.14E-03	0.1882	0.1732
	Total		0.2689	2.6568	2.3608	3.14E-03	0.1882	0.1732
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
	Worker		9.08E-03	0.0123	0.1288	3.90E-04	0.0311	8.46E-03
	Total		0.0423	0.3077	0.5749	1.25E-03	0.0592	0.0195
TOTAL			0.3112	2.9645	2.9357	0.0044	0.2474	0.1927

Site Preparation Soil Haul			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Fugitive Dust						4.83E-03	7.30E-04
	Off-Road		0	0	0	0	0	0
	Total		0	0	0	0	4.83E-03	7.30E-04
Offsite								
	Hauling		0.2036	2.9861	2.3348	9.11E-03	0.2502	0.0995
	Vendor		0	0	0	0	0	0
	Worker		0	0	0	0	0	0
	Total		0.2036	2.9861	2.3348	9.11E-03	0.2502	0.0995
TOTAL			0.2036	2.9861	2.3348	0.0091	0.2550	0.1002
2018 SP + SPSH			0.5148	5.9506	5.2705	0.0135	0.5024	0.2929

Mass Excavation			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Fugitive Dust						0	0
	Off-Road		0.4002	4.8067	2.6034	8.71E-03	0.166	0.1527
	Total		0.4002	4.8067	2.6034	8.71E-03	0.166	0.1527
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
	Worker		9.08E-03	0.0123	0.1288	3.90E-04	0.0311	8.46E-03
	Total		0.0423	0.3077	0.5749	1.25E-03	0.0592	0.0195
TOTAL			0.4425	5.1144	3.1783	0.0100	0.2252	0.1722

Utility Trenching			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Off-Road		0.2551	2.5213	2.2404	2.98E-03	0.1786	0.1643
	Total		0.2551	2.5213	2.2404	2.98E-03	0.1786	0.1643
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
	Worker		9.08E-03	0.0123	0.1288	3.90E-04	0.0311	8.46E-03
	Total		0.0423	0.3077	0.5749	1.25E-03	0.0592	0.0195
TOTAL			0.2974	2.8290	2.8153	0.0042	0.2378	0.1838
2018 ME + UT			0.7399	7.9434	5.9936	0.0142	0.4630	0.3560

Mass Excavation Soil Haul			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Fugitive Dust						0.0777	0.0118
	Off-Road		0	0	0	0	0	0
	Total		0	0	0	0	0.0777	0.0118
Offsite								
	Hauling		3.2722	47.9915	37.5228	0.1464	4.0216	1.5996
	Vendor		0	0	0	0	0	0
	Worker		0	0	0	0	0	0
	Total		3.2722	47.9915	37.5228	0.1464	4.0216	1.5996
TOTAL			3.2722	47.9915	37.5228	0.1464	4.0993	1.6114
2018 ME + UT + MESH			4.0121	55.9349	43.5164	0.1606	4.5623	1.9674

Fine Grading			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Fugitive Dust						0	0
	Off-Road		0.2689	2.6568	2.3608	3.14E-03	0.1882	0.1732
	Total		0.2689	2.6568	2.3608	3.14E-03	0.1882	0.1732
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.0333	0.2955	0.4461	8.60E-04	0.028	0.011
	Worker		9.08E-03	0.0123	0.1288	3.90E-04	0.0311	8.46E-03
	Total		0.0423	0.3077	0.5749	1.25E-03	0.0592	0.0195
TOTAL			0.3112	2.9645	2.9357	0.0044	0.2474	0.1927
2018 UT + FG			0.6086	5.7935	5.7510	0.0086	0.4852	0.3765

Fine Grading Soil Haul			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Fugitive Dust						0.0242	3.66E-03
	Off-Road		0	0	0	0	0	0
	Total		0	0	0	0	0.0242	3.66E-03
Offsite								
	Hauling		1.018	14.9307	11.6738	0.0456	1.2512	0.4977
	Vendor		0	0	0	0	0	0
	Worker		0	0	0	0	0	0
	Total		1.018	14.9307	11.6738	0.0456	1.2512	0.4977
TOTAL			1.0180	14.9307	11.6738	0.0456	1.2754	0.5014
2018 UT + FG + FGSH			1.6266	20.7242	17.4248	0.0542	1.7606	0.8779

Building Construction			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2018						
	Off-Road		1.7645	17.9151	14.7097	0.0255	0.8743	0.8357
	Total		1.7645	17.9151	14.7097	0.0255	0.8743	0.8357
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.2494	2.216	3.3454	6.43E-03	0.2101	0.0825
	Worker		0.9774	1.3191	13.8679	0.0415	3.3523	0.9107
	Total		1.2269	3.5351	17.2133	0.0479	3.5624	0.9932
TOTAL			2.9914	21.4502	31.9230	0.0734	4.4367	1.8289

Building Construction			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2019						
	Off-Road		1.6208	16.3313	14.2972	0.0255	0.7838	0.7487
	Total		1.6208	16.3313	14.2972	0.0255	0.7838	0.7487
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.2327	2.0544	3.1968	6.44E-03	0.2078	0.0804
	Worker		0.9136	1.2224	12.9124	0.0417	3.3525	0.9109
	Total		1.1463	3.2768	16.1092	0.0481	3.5603	0.9913
TOTAL			2.7671	19.6081	30.4064	0.0736	4.3441	1.7400

Building Construction			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2020						
	Off-Road		1.4847	14.6789	13.7372	0.0255	0.6942	0.663
	Total		1.4847	14.6789	13.7372	0.0255	0.6942	0.663
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0.2142	1.7925	3.0555	6.43E-03	0.205	0.0778
	Worker		0.8642	1.1412	12.1064	0.0417	3.3526	0.9111
	Total		1.0784	2.9337	15.1619	0.0481	3.5576	0.9888
TOTAL			2.5631	17.6126	28.8991	0.0736	4.2518	1.6518

Asphalt Paving			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2020						
	Off-Road		0.5096	3.5855	3.8232	4.88E-03	0.2403	0.2211
	Paving		0.0393				0	0
	Total		0.5489	3.5855	3.8232	4.88E-03	0.2403	0.2211
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0	0	0	0	0	0
	Worker		0.0348	0.0459	0.4873	1.68E-03	0.1349	0.0367
	Total		0.0348	0.0459	0.4873	1.68E-03	0.1349	0.0367
TOTAL			0.5837	3.6314	4.3105	0.0066	0.3752	0.2578

Architectural Coating			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2020						
	Archit. Coating		2.3351				0	0
	Off-Road		0	0	0	0	0	0
	Total		2.3351	0	0	0	0	0
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0	0	0	0	0	0
	Worker		0.1712	0.2261	2.3988	8.25E-03	0.6643	0.1805
	Total		0.1712	0.2261	2.3988	8.25E-03	0.6643	0.1805
TOTAL			2.5063	0.2261	2.3988	0.0083	0.6643	0.1805

2020 BC + AP + AC			5.6531	21.4701	35.6084	0.0884	5.2913	2.0901
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Finishing/Landscaping			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		2020						
	Off-Road		0.2117	2.1269	2.3032	3.14E-03	0.1345	0.1237
	Paving		0.0175				0	0
	Total		0.2291	2.1269	2.3032	3.14E-03	0.1345	0.1237
Offsite								
	Hauling		0	0	0	0	0	0
	Vendor		0	0	0	0	0	0
	Worker		8.03E-03	0.0106	0.1124	3.90E-04	0.0311	8.46E-03
	Total		8.03E-03	0.0106	0.1124	3.90E-04	0.0311	8.46E-03
TOTAL			0.2371	2.1375	2.4156	0.0035	0.1656	0.1322
2020 BC + FL			2.80023	19.75010	31.31470	0.07713	4.41740	1.78396
MAX DAILY			5.65	55.93	43.52	0.16	5.29	2.09
Regional Thresholds			75	100	550	150	150	55
Exceeds Thresholds?			No	No	No	No	No	No

Localized Construction Emissions Worksheet - Unmitigated

Building Demolition

		2018	NOx	CO	PM10 Total	PM2.5 Total
Onsite	Off-Road		10.5216	7.8442	0.4979	0.4581
	Total		10.5216	7.8442	0.4979	0.4581

Asphalt Demolition

		2018	NOx	CO	PM10 Total	PM2.5 Total
Onsite	Off-Road		0	0	0	0
	Total		0	0	0	0

2018 BD + AD **10.5216** **7.8442** **0.4979** **0.4581**

LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Building Demo Debris Haul

		2018	NOx	CO	PM10 Total	PM2.5 Total
Onsite	Fugitive Dust				5.0314	0.7618
	Off-Road		0	0	0	0
	Total		0	0	5.0314	0.7618

Asphalt Demo Debris Haul

		2018	NOx	CO	PM10 Total	PM2.5 Total
Onsite	Fugitive Dust				1.9821	0.3001
	Off-Road		0	0	0	0
	Total		0	0	1.9821	0.3001

2018 BD + AD + BDDH + ADDH **10.5216** **7.8442** **7.5114** **1.5200**

LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	Yes	No

Site Preparation

		2018	NOx	CO	PM10 Total	PM2.5 Total
Onsite	Fugitive Dust				0	0
	Off-Road		2.6568	2.3608	0.1882	0.1732
	Total		2.6568	2.3608	0.1882	0.1732

LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Site Preparation Soil Haul

		2018	NOx	CO	PM10 Total	PM2.5 Total
Onsite	Fugitive Dust				4.83E-03	7.30E-04
	Off-Road		0	0	0	0
	Total		0	0	4.83E-03	7.30E-04

2018 SP + SPSH **2.6568** **2.3608** **0.1930** **0.1739**

LSTs 92 647 4.00 3.00
 Exceed Thresholds? No No No No

Mass Excavation

		2018	NOx	CO	PM10 Total	PM2.5 Total
Onsite	Fugitive Dust				0	0
	Off-Road		4.8067	2.6034	0.166	0.1527
	Total		4.8067	2.6034	0.166	0.1527

Utility Trenching

		2018	NOx	CO	PM10 Total	PM2.5 Total
Onsite	Off-Road		2.5213	2.2404	0.1786	0.1643
	Total		2.5213	2.2404	0.1786	0.1643

2018 ME + UT **7.3280** **4.8438** **0.3446** **0.3170**

LSTs 92 647 4.00 3.00
 Exceed Thresholds? No No No No

Mass Excavation Soil Haul

		2018	NOx	CO	PM10 Total	PM2.5 Total
Onsite	Fugitive Dust				0.0777	0.0118
	Off-Road		0	0	0	0
	Total		0	0	0.0777	0.0118

2018 ME + UT + MESH **7.3280** **4.8438** **0.4223** **0.3288**

LSTs 92 647 4.00 3.00
 Exceed Thresholds? No No No No

Fine Grading						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2018				
	Fugitive Dust				0	0
	Off-Road		2.6568	2.3608	0.1882	0.1732
	Total		2.6568	2.3608	0.1882	0.1732
2018 UT + FG			5.1781	4.6012	0.3668	0.3375

LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Fine Grading Soil Haul						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2018				
	Fugitive Dust				0.0242	3.66E-03
	Off-Road		0	0	0	0
	Total		0	0	0.0242	3.66E-03
2018 UT + FG + FGSH			5.1781	4.6012	0.3910	0.3412

LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Building Construction						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2018				
	Off-Road		17.9151	14.7097	0.8743	0.8357
	Total		17.9151	14.7097	0.8743	0.8357
LSTs	92	647	4.00	3.00		
Exceed Thresholds?	No	No	No	No		

Building Construction						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2019				
	Off-Road		16.3313	14.2972	0.7838	0.7487
	Total		16.3313	14.2972	0.7838	0.7487
LSTs	92	647	4.00	3.00		
Exceed Thresholds?	No	No	No	No		

Building Construction						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2020				
	Off-Road		14.6789	13.7372	0.6942	0.663
	Total		14.6789	13.7372	0.6942	0.663
LSTs	92	647	4.00	3.00		
Exceed Thresholds?	No	No	No	No		

Asphalt Paving				NOx	CO	PM10 Total	PM2.5 Total
Onsite		2020					
	Off-Road Paving		3.5855	3.8232	0.2403	0.2211	
	Total		3.5855	3.8232	0.2403	0.2211	

Architectural Coating				NOx	CO	PM10 Total	PM2.5 Total
Onsite		2020					
	Archit. Coating				0	0	
	Off-Road		0	0	0	0	
	Total		0	0	0	0	

2020 BC + AP + AC			18.2644	17.5604	0.9345	0.8841
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LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Finishing/Landscaping				NOx	CO	PM10 Total	PM2.5 Total
Onsite		2020					
	Off-Road Paving		2.1269	2.3032	0.1345	0.1237	
	Total		2.1269	2.3032	0.1345	0.1237	

LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

2020 BC + FL			16.8058	16.0404	0.8287	0.7867
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LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Localized Construction Emissions Worksheet - Mitigated

Building Demolition				NOx	CO	PM10 Total	PM2.5 Total
Onsite		2018					
	Off-Road		10.5216	7.8442	0.4979	0.4581	
	Total		10.5216	7.8442	0.4979	0.4581	

Asphalt Demolition				NOx	CO	PM10 Total	PM2.5 Total
Onsite		2018					
	Off-Road		0	0	0	0	
	Total		0	0	0	0	

2018 BD + AD			10.5216	7.8442	0.4979	0.4581
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LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Building Demo Debris Haul				NOx	CO	PM10 Total	PM2.5 Total
Onsite		2018					
	Fugitive Dust				2.1563	0.3265	
	Off-Road		0	0	0	0	
	Total		0	0	2.1563	0.3265	

Asphalt Demo Debris Haul				NOx	CO	PM10 Total	PM2.5 Total
Onsite		2018					
	Fugitive Dust				0.8495	0.1286	
	Off-Road		0	0	0	0	
	Total		0	0	0.8495	0.1286	

2018 BD + AD + BDDH + ADDH			10.5216	7.8442	3.5037	0.9132
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LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Site Preparation				NOx	CO	PM10 Total	PM2.5 Total
Onsite		2018					
	Fugitive Dust				0	0	
	Off-Road		2.6568	2.3608	0.1882	0.1732	
	Total		2.6568	2.3608	0.1882	0.1732	

LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Site Preparation Soil Haul

		2018	NOx	CO	PM10 Total	PM2.5 Total
Onsite	Fugitive Dust				4.83E-03	7.30E-04
	Off-Road		0	0	0	0
	Total		0	0	4.83E-03	7.30E-04

2018 SP + SPSH	2.6568	2.3608	0.1930	0.1739
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LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Mass Excavation

		2018	NOx	CO	PM10 Total	PM2.5 Total
Onsite	Fugitive Dust				0	0
	Off-Road		4.8067	2.6034	0.166	0.1527
	Total		4.8067	2.6034	0.166	0.1527

Utility Trenching

		2018	NOx	CO	PM10 Total	PM2.5 Total
Onsite	Off-Road		2.5213	2.2404	0.1786	0.1643
	Total		2.5213	2.2404	0.1786	0.1643

2018 ME + UT	7.3280	4.8438	0.3446	0.3170
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LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Mass Excavation Soil Haul

		2018	NOx	CO	PM10 Total	PM2.5 Total
Onsite	Fugitive Dust				0.0777	0.0118
	Off-Road		0	0	0	0
	Total		0	0	0.0777	0.0118

2018 ME + UT + MESH	7.3280	4.8438	0.4223	0.3288
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LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Fine Grading						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2018				
	Fugitive Dust				0	0
	Off-Road		2.6568	2.3608	0.1882	0.1732
	Total		2.6568	2.3608	0.1882	0.1732
2018 UT + FG			5.1781	4.6012	0.3668	0.3375

LSTs 92 647 4.00 3.00
 Exceed Thresholds? No No No No

Fine Grading Soil Haul						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2018				
	Fugitive Dust				0.0242	3.66E-03
	Off-Road		0	0	0	0
	Total		0	0	0.0242	3.66E-03
2018 UT + FG + FGSH			5.1781	4.6012	0.3910	0.3412

LSTs 92 647 4.00 3.00
 Exceed Thresholds? No No No No

Building Construction						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2018				
	Off-Road		17.9151	14.7097	0.8743	0.8357
	Total		17.9151	14.7097	0.8743	0.8357
LSTs			92	647	4.00	3.00
Exceed Thresholds?			No	No	No	No

Building Construction						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2019				
	Off-Road		16.3313	14.2972	0.7838	0.7487
	Total		16.3313	14.2972	0.7838	0.7487
LSTs			92	647	4.00	3.00
Exceed Thresholds?			No	No	No	No

Building Construction						
			NOx	CO	PM10 Total	PM2.5 Total
Onsite		2020				
	Off-Road		14.6789	13.7372	0.6942	0.663
	Total		14.6789	13.7372	0.6942	0.663
LSTs			92	647	4.00	3.00
Exceed Thresholds?			No	No	No	No

Asphalt Paving				NOx	CO	PM10 Total	PM2.5 Total
Onsite		2020					
	Off-Road Paving		3.5855	3.8232	0.2403	0.2211	
	Total		3.5855	3.8232	0.2403	0.2211	

Architectural Coating				NOx	CO	PM10 Total	PM2.5 Total
Onsite		2020					
	Archit. Coating				0	0	
	Off-Road		0	0	0	0	
	Total		0	0	0	0	

2020 BC + AP + AC			18.2644	17.5604	0.9345	0.8841
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LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Finishing/Landscaping				NOx	CO	PM10 Total	PM2.5 Total
Onsite		2020					
	Off-Road Paving		2.1269	2.3032	0.1345	0.1237	
	Total		2.1269	2.3032	0.1345	0.1237	

LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

2020 BC + FL			16.8058	16.0404	0.8287	0.7867
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LSTs	92	647	4.00	3.00
Exceed Thresholds?	No	No	No	No

Operational Emissions Worksheet

Regional Existing 2020

Summer	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.1490	0.0000	0.0025	0.0000	0.0000	0.0000
Energy	0.0074	0.0669	0.0562	0.0004	0.0051	0.0051
Mobile	0.2781	0.6215	3.0919	0.0103	0.7462	0.2059
Total	1.4345	0.6885	3.1506	0.0107	0.7513	0.2110
Winter	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.1490	0.0000	0.0025	0.0000	0.0000	0.0000
Energy	0.0074	0.0669	0.0562	0.0004	0.0051	0.0051
Mobile	0.2928	0.6561	3.0653	0.0099	0.7462	0.2059
Total	1.4491	0.7230	3.1240	0.0103	0.7513	0.2110
Max Daily	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.1490	0.0000	0.0025	0.0000	0.0000	0.0000
Energy	0.0074	0.0669	0.0562	0.0004	0.0051	0.0051
Mobile	0.2928	0.6561	3.0919	0.0103	0.7462	0.2059
Total	1.4491	0.7230	3.1506	0.0107	0.7513	0.2110

Project

Summer	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	10.9016	0.0958	8.2883	4.40E-04	0.181	0.1796
Energy	0.034	0.2907	0.1237	1.86E-03	0.0235	0.0235
Mobile	0.9384	0.9525	10.8853	0.0372	3.0976	0.8355
Total	11.874	1.3389	19.2973	0.0395	3.3021	1.0386

Winter	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	10.9016	0.0958	8.2883	4.40E-04	0.181	0.1796
Energy	0.034	0.2907	0.1237	1.86E-03	0.0235	0.0235
Mobile	0.9823	1.038	10.4442	0.0353	3.0977	0.8356
Total	11.9179	1.4245	18.8563	0.0376	3.3021	1.0386

Max Daily	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	10.9016	0.0958	8.2883	0.0004	0.1810	0.1796
Energy	0.0340	0.2907	0.1237	0.0019	0.0235	0.0235
Mobile	0.9823	1.0380	10.8853	0.0372	3.0977	0.8356
Total	11.9179	1.4245	19.2973	0.0395	3.3021	1.0386

Net Emissions (Project - Existing)

Max Daily	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	9.7526	0.0958	8.2858	0.0004	0.1810	0.1796
Energy	0.0266	0.2238	0.0675	0.0015	0.0184	0.0184
Mobile	0.6895	0.3819	7.7934	0.0269	2.3515	0.6297
Total	10.4688	0.7015	16.1467	0.0288	2.5508	0.8276

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

Localized

Max Daily	NOx	CO	PM10 Total	PM2.5 Total
Area	0.0958	8.2858	0.1810	0.1796
Energy	0.2238	0.0675	0.0184	0.0184
	0.3196	8.3533	0.1994	0.1980
LST Thresholds	131	962	2.00	2.00
Exceeds Thresholds?	No	No	No	No

GHG Emissions Worksheet

Existing 2016

Source	MTons/Year	Percent of Total
Area	0	0%
Energy	129	44%
Mobile	129	44%
Waste	13	5%
Water	21	7%
Total All Sectors	292	100%

Proposed Project Buildout

	MTons Total	
Total Construction	1,628	

Source	MTons/Year	Percent of Total
Area	26	2%
Energy	365	22%
Mobile	402	25%
Waste	102	6%
Water	683	42%
Amortized Construction Emissions*	54	3%
Total All Sectors	1,632	100%

Net GHG Emissions (Project - Existing)

	MTons Total	
Total Construction	1,628	

Source	MTons/Year	Percent of Total
Area	26	2%
Energy	236	18%
Mobile	273	20%
Waste	88	7%
Water	662	49%
Amortized Construction Emissions*	54	4%
Total All Sectors	1,340	100%

*Total construction emissions are amortized over 30 years per SCAQMD 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>.

CalEEMod Project Characteristics Inputs (Construction)

Name: OCMA Project
Project Location: 850 San Clemente Drive, Newport Beach, CA 92660
Project Location: Orange County
Climate Zone: 8
Land Use Setting: Urban
Operational Year: 2020
Utility Company: Southern California Edison
SRA: 18

General Info

	Square Feet	Acreage
Total Project Site Area		2.00
Acreage to be disturbed during construction		2.00
Residential Building	391,158	1.19
2-Story Subterranean Parking	115,828	0.35
Non-Parking Asphalt	12,886	0.30
Hardscape	26,399	0.08
Landscaping	25,219	0.08

CalEEMod Land Use Inputs

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet	Population
Condominium Tower	Residential	Condo/Townhouse High Rise	100	Dwelling Unit	1.19	391,158	217
2-Story Subterranean Parking	Parking	Enclosed Parking with Elevator	0.35	Acre	0.35	115,828	
Non-Parking Asphalt	Parking	Other Asphalt Surfaces	0.30	Acre	0.30	0	
Hardscape + Landscaping	Parking	Other Non-Asphalt Surfaces	0.16	Acre	0.16	0	
					2.00		

Demolition Haul

Phase Name	Amount to be Demolished		Haul Distance			
	(tons)	Haul Truck Capacity (tons)*	(miles)*	Total Trip Ends	Duration (days)	Trips Ends/Day*
Building Demo Debris Haul	1,650	20	20	165	3	80
Asphalt Demo Debris Haul	650	20	20	65	3	32
						112

*Provided by the Applicant.

Mitigation

Phase Name	Amount to be Demolished (tons)	Haul Truck Capacity (tons)*	Haul Distance		Duration (days)	Trips Ends/Day
			(miles)*	Total Trip Ends		
Building Demo Debris Haul	1,650	20	20	165	7	24
Asphalt Demo Debris Haul	650	20	20	65	7	10
						34

Soil Haul

Phase Name	Total Exmport Volume (CY)*	Haul Truck Capacity (CY)*	Haul Distance		Duration (days)*	Trip Ends/Day
			(miles)*	Total Trip Ends		
Site Preparation Soil Haul	100	20	25	10	1	10
Mass Excavation Soil Haul	45,000	20	25	4,500	28	161
Fine Grading Soil Haul	500	20	25	50	1	50

*Provided by the Applicant.

Architectural Coating

Provided by the Applicant

Percentage of Buildings' Interior
Painted: 80%

Percentage of Buildings' Exterior
Painted: 5%

Interior Paint VOC content: 50 grams per liter
Exterior Paing VOC content: 50 grams per liter

Mitigation

Interior Paint VOC content: 0 grams per liter

Residential Structures	Land Use Square Feet	SCAQMD Factor	Total Paintable Surface Area²	Paintable Interior Area¹	Paintable Exterior Area¹
Condominium Tower	391,158	2.7	1,056,127	633,676	13,202

Non-Residential Structures	Land Use Square Feet	SCAQMD Factor	Total Paintable Surface Area²	Paintable Interior Area¹	Paintable Exterior Area¹
2-Story Subterranean Parking	115,828	0.06	6,950		6,950

¹ *CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

² ** Applied CalEEMod Methodology in calculating total

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
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CalEEMod Construction Phase Inputs*

5-Day Work Week/8 hours per day

Phase Name	Phase Type	Start Date	End Date	CalEEMod Total Days
Building Demolition	Demolition	1/1/2018	2/1/2018	24
Building Demo Debris Haul	Demolition	1/30/2018	2/1/2018	3
Asphalt Demolition	Demolition	1/1/2018	2/1/2018	24
Asphalt Demo Debris Haul	Demolition	1/30/2018	2/1/2018	3
Site Preparation	Site Preparation	2/2/2018	3/1/2018	20
Site Preparation Soil Haul	Site Preparation	3/1/2018	3/1/2018	1
Mass Excavation	Grading	3/2/2018	5/1/2018	43
Mass Excavation Soil Haul	Grading	3/23/2018	5/1/2018	28
Utility Trenching	Trenching	3/2/2018	6/1/2018	66
Fine Grading	Grading	5/2/2018	6/1/2018	23
Fine Grading Soil Haul	Grading	6/1/2018	6/1/2018	1
Building Construction	Building Construction	6/2/2018	4/1/2020	478
Asphalt Paving	Paving	2/1/2020	3/1/2020	20
Architectural Coating	Architectural Coating	2/1/2020	3/1/2020	20
Finishing/Landscaping	Paving	3/2/2020	5/1/2020	45

*Based on construction schedule provided by the Applicant.

Mitigation

Phase Name	Phase Type	Start Date	End Date	CalEEMod Total Days
Building Demolition	Demolition	1/1/2018	2/1/2018	24
Building Demo Debris Haul	Demolition	1/24/2018	2/1/2018	7
Asphalt Demolition	Demolition	1/1/2018	2/1/2018	24
Asphalt Demo Debris Haul	Demolition	1/24/2018	2/1/2018	7
Site Preparation	Site Preparation	2/2/2018	3/1/2018	20
Site Preparation Soil Haul	Site Preparation	3/1/2018	3/1/2018	1
Mass Excavation	Grading	3/2/2018	5/1/2018	43
Mass Excavation Soil Haul	Grading	3/23/2018	5/1/2018	28
Utility Trenching	Trenching	3/2/2018	6/1/2018	66
Fine Grading	Grading	5/2/2018	6/1/2018	23
Fine Grading Soil Haul	Grading	6/1/2018	6/1/2018	1
Building Construction	Building Construction	6/2/2018	4/1/2020	478
Asphalt Paving	Paving	2/1/2020	3/1/2020	20
Architectural Coating	Architectural Coating	2/1/2020	3/1/2020	20
Finishing/Landscaping	Paving	3/2/2020	5/1/2020	45

CalEEMod Construction Off-Road Equipment Inputs**

Equipment Type	CalEEMod Equipment Type	Unit Amount	Hours/Day	HP	LF	CalEEMod Vendor Trips	Worker Trips
Building Demolition							
Concrete Saw	Concrete/Industrial Saws	1	8	10	0.73		
Cat (Backhoe Loader)	Tractors/Loaders/Backhoes	1	8	93	0.37		
John Deere (Excavator)	Excavators	1	8	121	0.38		
Cat (Skid Steer)	Skid Steer Loaders	1	8	73	0.3685		
Cat (Track Loader)	Tractors/Loaders/Backhoes	1	8	189	0.37		
Trucking End Dump***		5					
Water Truck*						4	
Asphalt Demolition							
John Deere (Excavator)****	Excavators	0	8	121	0.38		
Cat (Wheel Loader)****	Tractors/Loaders/Backhoes	0	8	93	0.37		
Trucking End Dump***		5					
Water Truck*						4	
Site Preparation							
Ford (Skip Tractor)	Tractors/Loaders/Backhoes	1	8	98	0.37		
Water Truck*						4	
Mass Excavation							
Cat (Wheel Loader)	Tractors/Loaders/Backhoes	1	8	276	0.37		
Trucking Bottom Dump***		20					
Water Truck*						4	
Utility Trenching							
Cat (Backhoe Loader)	Tractors/Loaders/Backhoes	1	8	93	0.37		
Water Truck*						4	
Fine Grading							
Ford (Skip Tractor)	Tractors/Loaders/Backhoes	1	8	98	0.37		
Water Truck*						4	
Building Construction							
Liebherr (Crane)	Cranes	1	8	341	0.29		323
Hyster (Forklift)	Forklifts	1	8	110	0.2		
Aggreko (Generator Set)	Generator Sets	1	8	167	0.74		
Sullair (Air Compressor)	Air Compressors	1	4	80	0.48		
Asphalt Paving							
Ford (Skip Tractor)	Tractors/Loaders/Backhoes	1	8	98	0.37		13
Cat (Compactor)	Rollers	1	8	48	0.3752		
Architectural Coating							
No Equipment							64
Finishing/Landscaping							
Ford (Skip Tractor)	Tractors/Loaders/Backhoes	1	8	98	0.37		

*Emissions accounted for in the vendor trips assigned.

**Based on construction information provided by the Applicant.

***Emissions accounted for in the haul trips assigned.

****Asphalt Demolition overlaps with Building Demolition and will share overlapping equipment.

CalEEMod Project Characteristics Inputs (Operation - Existing)

Name: OCMA Project
Project Location: 850 San Clemente Drive, Newport Beach, CA 92660
Project Location: Orange County
Climate Zone: 8
Land Use Setting: Urban
Operational Year: 2016/2020
Utility Company: Southern California Edison
SRA: 18

General Info

Total Project Site Area 2.00 acres
 Acreage to be disturbed during construction 2.00 acres
 OCMA Building 23,000 SQFT
 Surface Parking 27,380 SQFT
 Hardscape & Landscape 36,562 SQFT

CalEEMod Land Use Inputs

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet
OCMA Building	Commercial	General Office Building	23	1000sqft	0.53	23,000
Surface Parking	Parking	Parking Lot	0.63	Acre	0.63	27,380
Hardscape & Landscape	Parking	Other Non-Asphalt Surfaces	0.84	Acre	0.84	0
					<u>2.00</u>	

Trip Generation:

OCMA Building
 Trip Generation* 108 ADT
 Weekday Trip Rate 4.70 trips/ksf
 Saturday Trip Rate** 4.70 trips/ksf
 Sunday Trip Rate** 4.70 trips/ksf

*OCMA - Residential Project Trip Generation Analysis by DKS 2016.

**Conservatively assume to be the same as weekday trip rate.

Modeling for operational emissions is based on a 23,000 SQFT building. The actual size of the OCMA building is 23,632 SQFT. Therefore, the net increase in criteria air pollutants and GHG emissions due to the project is likely to be smaller since the 632 SQFT of existing space generates a slightly higher energy use than modeled for existing conditions.

Solid Waste

Solid Waste Generation* 0.007 pounds/sqft/day
29.38 tons/year

*CalRecycle 2013. Public Sector and Institutions: Estimated Solid Waste Generation Rates.

Water and Wastewater

Septic Tank	0%
Aerobic	100%
Facultative Lagoons	0%

Indoor Water Use (Sewer Flow)*

Museum:	0.003	cfs
	1,938.571	GPD
	707,579	GPY

Total Water Use *

Museum:	17,401.94	GPD
	6,351,708	GPY

Total Outdoor Water Use: **5,644,130** GPY

*Fuscoe Engineering, October 2015. OCMA Museum House Sewer Analysis Report.

**Fuscoe Engineering, October 2015. OCMA Museum House Water Demand Report.

Historical Data Enabled

All existing buildings are assumed to meet the 2005 Building Energy Efficiency Standards.

CalEEMod Project Characteristics Inputs (Operation - Project)

Name: OCMA Project
Project Location: 850 San Clemente Drive, Newport Beach, CA 92660
Project Location: Orange County
Climate Zone: 8
Land Use Setting: Urban
Operational Year: 2020
Utility Company: Southern California Edison
SRA: 18

Newport Beach Average Household Size*:	<u>2.17</u>	people
Project Dwelling Units:	<u>100</u>	DU
Residents:	<u>217</u>	people

*Based on the 2010 U.S. Census for the City of Newport Beach. Consistent with Chapter 5.10 Population and Housing of the Museum House Draft EIR.

Trip Generation:

Condominium Tower

Trip Generation*	<u>418</u>	ADT
Weekday Trip Rate*	<u>4.18</u>	trips/DU
ITE Saturday Trip Rate**	<u>4.31</u>	trips/DU
ITE Sunday Trip Rate**	<u>3.43</u>	trips/DU

*OCMA - Residential Project Trip Generation Analysis by DKS 2016.

** ITE Trip Generation Manual 9th Edition for High-Rise Condominium.

Solid Waste

Solid Waste Generation*	<u>12.23</u>	pounds/DU/day
	<u>223.20</u>	tons/year

*CalRecycle 2013. Residential Developments: Estimated Solid Waste Generation Rates.

Water and Wastewater

Septic Tank	<u>0%</u>
Aerobic	<u>100%</u>
Facultative Lagoons	<u>0%</u>

Indoor Water Use (Sewer Flow)*

Residential:	<u>104,000</u>	GPD
	<u>37,960,000</u>	GPY
Amenities:	<u>2,920</u>	GPD
	<u>1,065,800</u>	GPY
Total Indoor Water Use:	<u>39,025,800</u>	GPY

Total Water Use *

Residential:	605,875	GPD
	221,144,375	GPY
Amenities:	1,091	GPD
	398,065	GPY
Total Water Use:	221,542,440	GPY
Total Outdoor Water Use:	182,516,640	GPY

*Fusco Engineering, October 2015. OCMA Museum House Sewer Analysis Report.

**Fusco Engineering, October 2015. OCMA Museum House Water Demand Report.

Area - Hearths

SCAQMD Rule 445: Woodburning Devices

0%	Woodstoves		
0%	Wood Fireplace		
100%	Gas Fireplace	101	# Gas (include 1 gas fireplace to account for the one outdoor fireplace and barbeque area)

Modeling Adjustments for Operational Architectural Coating

SCAQMD Rule 1113

Anticipated Non-Res Exterior Area:	6,950	SQFT
Default Non-Res Exterior Area:	57,914	SQFT
Difference:	12%	
Anticipated Non-Res Exterior VOC:	50	grams per liter
Adjusted Non-Res Exterior VOC:*	6	grams per liter
Anticipated Res Exterior VOC:	50	grams per liter
Default Res Exterior VOC:	100	grams per liter
Difference:	50%	
Res Exterior Area:	13,202	SQFT
Adjusted Res Exterior Area:	6,601	SQFT
Anticipated Non-Res Interior VOC:	50	grams per liter
Default Non-Res Interior VOC:	250	grams per liter
Difference:	20%	
Non-Res Interior Area:	0	SQFT
Adjusted Non-Res Interior Area:	0	SQFT

*Adjustment made due to modeling software limitation.

Water Mitigation

Install Low Flow Bathroom Faucet	32	% Reduction in flow
Install Low Flow Kitchen Faucet	18	% Reduction in flow
Install Low Flow Toilet	20	% Reduction in flow
Install Low Flow Shower	20	% Reduction in flow
Use Water Efficiency Irrigation System	6.1	% Reduction in flow

Energy Mitigation

2013 Building and Energy Efficiency Standards

Buildings constructed after January 1, 2014 are required to meet the 2013 Building and Energy Efficiency Standards. The 2013 Standards are 30% more energy efficient for non-residential buildings and 25% more energy efficient for residential buildings than the 2008 Building and Energy Efficiency Standards.

Exceed Title 24	30%	Improvement
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2016 Building and Energy Efficiency Standards

Non-Residential Exceed Title 24	5%	Improvement over 2013 ¹
Non-Residential Exceed Title 24	33.5%	Improvement over 2008

Sources:

¹ California Energy Commission. 2015a. 2016 Building Energy Efficiency Standards, Adoption Hearing Presentation. [http://www.energy.ca.gov/title24/2016standards/rulemaking/documents/ June 10.](http://www.energy.ca.gov/title24/2016standards/rulemaking/documents/June10)

**Multi-family of 4 stories and higher are treated as non-residential for the Building and Energy Efficiency Standards.*

Changes to CalEEMod Defaults - Fleet Mix 2020 (Project)

Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix	0.508857	0.05642	0.193204	0.150829	0.041936	0.005921	0.015893	0.015805	0.001454	0.002159	0.004747	0.000498	0.002277	100.0%
Percent	76%			15%				9%						100%
Proportion	0.666717	0.073923	0.253141	1.000000	0.487951	0.068894	0.184925	0.183901	0.016918	0.025121	0.006220	0.005795	0.026494	
Assumed Mix adjusted with	97.00%			2.00%				1.00%						100.0%
Assumed	0.646715	0.071705	0.245546	0.020000	0.004880	0.000689	0.001849	0.001839	0.000169	0.000251	0.006033	0.000058	0.000265	100.0%
Percent	97.00%			2.00%				1.00%						
Calibrated so no motorhomes, HHDT or busing.	0.646715	0.071705	0.245546	0.020000	0.004880	0.000689	0.001849	0.000000	0.000000	0.000000	0.006033	0.000000	0.000000	99.7%
Percent	97.00%			2.00%				0.74%						99.7%
Modified	0.646715	0.071705	0.245546	0.020000	0.006578	0.000929	0.002493	0.000000	0.000000	0.000000	0.006033	0.000000	0.000000	100.0%
	97.00%			2.00%				1.00%						

Assumes no heavy-heavy duty trucks, motor homes, buses.

EMFAC 2014 Average Fuel Efficiency

Existing 2016

						Existing Annual VMT*		316,486	
calendar year	season month	sub area	vehicle class	Fuel Use (1000 gallons)	vmt	Gallons/ Mile	Fleet Mix	Existing Annual VMT	Gallons/Yr
2016	Annual	Orange (SC) LDA		1606.670759	41574617.95	25.9	51.10%	161,727	6,250
2016	Annual	Orange (SC) LDT1		160.8324694	3554449.29	22.1	5.72%	18,110	819
2016	Annual	Orange (SC) LDT2		861.7752949	16571459.1	19.2	19.16%	60,638	3,153
2016	Annual	Orange (SC) LHD1		117.5609222	1570476.299	13.4	4.13%	13,080	979
2016	Annual	Orange (SC) LHD2		33.51626741	449662.6704	13.4	0.59%	1,862	139
2016	Annual	Orange (SC) MCY		9.988416484	362674.7263	36.3	0.47%	1,492	41
2016	Annual	Orange (SC) MDV		689.9082447	10008425.37	14.5	15.24%	48,220	3,324
2016	Annual	Orange (SC) MH		11.80088264	91872.39285	7.8	0.22%	709	91
2016	Annual	Orange (SC) T6 Instate Heavy		44.68553853	389101.2896	8.7	1.53%	4,839	556
2016	Annual	Orange (SC) T7 Tractor		33.96315898	204629.6877	6.0	1.43%	4,520	750
2016	Annual	Orange (SC) SBUS		5.520650803	43680.36237	7.9	0.05%	161	20
2016	Annual	Orange (SC) UBUS		28.13791025	137372.0369	4.9	0.21%	678	139
2016	Annual	Orange (SC) OBUS		8.967194318	63658.90927	7.1	0.14%	452	64
							100%		16,325
average fuel economy Project Site passenger vehicles + Trucks									19.39

Project 2020

Project Annual VMT* 1,398,103

calendar year	season month	sub area	vehicle class	Fuel Use (1000 gallons)	vmt	Gallons/ Mile	Fleet Mix	Project Annual VMT	Gallons/Yr
2020	Annual	Orange (SC)	LDA	1514.743393	44941412.45	29.7	64.67%	904,175	30,475
2020	Annual	Orange (SC)	LDT1	145.7168653	3544442.824	24.3	7.17%	100,251	4,121
2020	Annual	Orange (SC)	LDT2	793.4551572	17004255.34	21.4	24.55%	343,299	16,019
2020	Annual	Orange (SC)	LHD1	95.03537543	1355221.128	14.3	0.66%	9,197	645
2020	Annual	Orange (SC)	LHD2	32.55601591	468445.5637	14.4	0.09%	1,299	90
2020	Annual	Orange (SC)	MCY	10.88004303	393408.4396	36.2	0.60%	8,435	233
2020	Annual	Orange (SC)	MDV	595.1096399	9407324.741	15.8	2.00%	27,962	1,769
2020	Annual	Orange (SC)	T6 Instate Heavy	53.83218042	469323.9876	8.7	0.25%	3,485	400
							100%		53,753
average fuel economy Project Site passenger vehicles + Trucks									26.01
net increase in gallons per year									37,427
% increase in VMT									341.76%

*CalEEMod Defaults

OCMA Project (Construction)
Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.35	Acre	0.35	115,828.00	0
Other Asphalt Surfaces	0.30	Acre	0.30	0.00	0
Other Non-Asphalt Surfaces	0.16	Acre	0.16	0.00	0
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.19	391,158.00	217

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

OCMA Project (Construction)
Orange County, Winter

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0 Land Use Square Feet to exclude striping

Construction Phase - Based on construction schedule provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant. Share equipment with Building Demolition.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Trips and VMT - Based on information provided by the Applicant.

Demolition -

Grading -

Architectural Coating - Based on construction information provided by the Applicant.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 & 1186

OCMA Project (Construction)
Orange County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	57,914.00	6,950.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	173,742.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	264,032.00	13,202.00
tblArchitecturalCoating	ConstArea_Residential_Interior	792,095.00	633,676.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	200.00	478.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	3.00
tblConstructionPhase	NumDays	20.00	3.00
tblConstructionPhase	NumDays	4.00	23.00
tblConstructionPhase	NumDays	4.00	1.00
tblConstructionPhase	NumDays	4.00	43.00
tblConstructionPhase	NumDays	4.00	28.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	PhaseEndDate	3/27/2020	3/1/2020
tblConstructionPhase	PhaseEndDate	3/7/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	2/6/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	2/6/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	6/4/2018	6/1/2018

OCMA Project (Construction)
Orange County, Winter

tblConstructionPhase	PhaseEndDate	7/11/2018	5/1/2018
tblConstructionPhase	PhaseEndDate	4/29/2020	3/1/2020
tblConstructionPhase	PhaseEndDate	3/2/2018	3/1/2018
tblConstructionPhase	PhaseEndDate	8/1/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	3/2/2020	2/1/2020
tblConstructionPhase	PhaseStartDate	2/2/2018	1/1/2018
tblConstructionPhase	PhaseStartDate	2/2/2018	1/30/2018
tblConstructionPhase	PhaseStartDate	2/2/2018	1/30/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	3/23/2018
tblConstructionPhase	PhaseStartDate	4/2/2020	2/1/2020
tblConstructionPhase	PhaseStartDate	3/2/2018	3/1/2018
tblConstructionPhase	PhaseStartDate	5/2/2018	3/2/2018
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialExported	0.00	45,000.00
tblGrading	MaterialExported	0.00	100.00
tblLandUse	LandUseSquareFeet	15,246.00	115,828.00
tblLandUse	LandUseSquareFeet	13,068.00	0.00
tblLandUse	LandUseSquareFeet	6,969.60	0.00
tblLandUse	LandUseSquareFeet	100,000.00	391,158.00
tblLandUse	LotAcreage	1.56	1.19
tblLandUse	Population	286.00	217.00
tblOffRoadEquipment	HorsePower	81.00	10.00
tblOffRoadEquipment	HorsePower	226.00	341.00
tblOffRoadEquipment	HorsePower	89.00	110.00
tblOffRoadEquipment	HorsePower	84.00	167.00
tblOffRoadEquipment	HorsePower	80.00	48.00

OCMA Project (Construction)
Orange County, Winter

tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	189.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	78.00	80.00
tblOffRoadEquipment	HorsePower	162.00	121.00
tblOffRoadEquipment	HorsePower	64.00	73.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

OCMA Project (Construction)
Orange County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00

OCMA Project (Construction)
Orange County, Winter

tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	63.00	50.00
tblTripsAndVMT	HaulingTripNumber	163.00	165.00
tblTripsAndVMT	HaulingTripNumber	64.00	65.00
tblTripsAndVMT	HaulingTripNumber	13.00	10.00
tblTripsAndVMT	HaulingTripNumber	5,625.00	4,500.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	121.00	323.00
tblTripsAndVMT	WorkerTripNumber	5.00	13.00
tblTripsAndVMT	WorkerTripNumber	24.00	64.00

OCMA Project (Construction)
Orange County, Winter

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					
2018	4.0123	55.9349	43.5163	0.1606	17.9371	1.1154	18.7365	2.9026	1.0261	3.6380	0.0000	15,705.9456	15,705.9456	0.5589	0.0000	15,717.6818
2019	2.7670	19.6081	30.4063	0.0736	3.7979	0.8410	4.6389	1.0109	0.8015	1.8124	0.0000	6,186.9297	6,186.9297	0.5458	0.0000	6,198.3916
2020	79.0803	21.4702	35.6083	0.0884	4.6586	0.9948	5.6534	1.2392	0.9398	2.1790	0.0000	7,210.8019	7,210.8019	0.7186	0.0000	7,225.8919
Total	85.8596	97.0131	109.5309	0.3226	26.3936	2.9512	29.0288	5.1527	2.7674	7.6293	0.0000	29,103.6772	29,103.6772	1.8232	0.0000	29,141.9653

OCMA Project (Construction)
Orange County, Winter

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					
2018	4.0123	55.9349	43.5163	0.1606	8.4389	1.1154	9.2382	1.4545	1.0261	2.1899	0.0000	15,705.9456	15,705.9456	0.5589	0.0000	15,717.6818
2019	2.7670	19.6081	30.4063	0.0736	3.5031	0.8410	4.3441	0.9385	0.8015	1.7400	0.0000	6,186.9297	6,186.9297	0.5458	0.0000	6,198.3916
2020	79.0803	21.4702	35.6083	0.0884	4.2965	0.9948	5.2913	1.1503	0.9398	2.0901	0.0000	7,210.8019	7,210.8019	0.7186	0.0000	7,225.8919
Total	85.8596	97.0131	109.5309	0.3226	16.2384	2.9512	18.8735	3.5433	2.7674	6.0200	0.0000	29,103.6772	29,103.6772	1.8232	0.0000	29,141.9653

	ROG	NOx	CO	SO2	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	38.48	0.00	34.98	31.23	0.00	21.09	0.00	0.00	0.00	0.00	0.00	0.00

OCMA Project (Construction)
Orange County, Winter

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	1/1/2018	2/1/2018	5	24	
2	Asphalt Demolition	Demolition	1/1/2018	2/1/2018	5	24	
3	Building Demo Debris Haul	Demolition	1/30/2018	2/1/2018	5	3	
4	Asphalt Demo Debris Haul	Demolition	1/30/2018	2/1/2018	5	3	
5	Site Preparation	Site Preparation	2/2/2018	3/1/2018	5	20	
6	Site Preparation Soil Haul	Site Preparation	3/1/2018	3/1/2018	5	1	
7	Mass Excavation	Grading	3/2/2018	5/1/2018	5	43	
8	Utility Trenching	Trenching	3/2/2018	6/1/2018	5	66	
9	Mass Excavation Soil Haul	Grading	3/23/2018	5/1/2018	5	28	
10	Fine Grading	Grading	5/2/2018	6/1/2018	5	23	
11	Fine Grading Soil Haul	Grading	6/1/2018	6/1/2018	5	1	
12	Building Construction	Building Construction	6/2/2018	4/1/2020	5	478	
13	Asphalt Paving	Paving	2/1/2020	3/1/2020	5	20	
14	Architectural Coating	Architectural Coating	2/1/2020	3/1/2020	5	20	
15	Finishing/Landscaping	Paving	3/2/2020	5/1/2020	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 633,676; Residential Outdoor: 13,202; Non-Residential Indoor: 0; Non-Residential Outdoor: 6,950 (Architectural

OCMA Project (Construction)
Orange County, Winter

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	1	8.00	10	0.73
Building Demolition	Excavators	1	8.00	121	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Building Demolition	Skid Steer Loaders	1	8.00	73	0.37
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	189	0.37
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Demo Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demo Debris Haul	Rubber Tired Dozers	0	8.00	255	0.40
Building Demo Debris Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Asphalt Demo Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Debris Haul	Rubber Tired Dozers	0	8.00	255	0.40
Asphalt Demo Debris Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Graders	0	8.00	174	0.41
Site Preparation	Scrapers	0	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Site Preparation Soil Haul	Graders	0	8.00	174	0.41
Site Preparation Soil Haul	Scrapers	0	8.00	361	0.48
Site Preparation Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Mass Excavation	Graders	0	8.00	174	0.41
Mass Excavation	Rubber Tired Dozers	0	8.00	255	0.40
Mass Excavation	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37

OCMA Project (Construction)
Orange County, Winter

Mass Excavation Soil Haul	Graders	0	8.00	174	0.41
Mass Excavation Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
Mass Excavation Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Fine Grading	Graders	0	8.00	174	0.41
Fine Grading	Rubber Tired Dozers	0	8.00	255	0.40
Fine Grading	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Fine Grading Soil Haul	Graders	0	8.00	174	0.41
Fine Grading Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
Fine Grading Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Air Compressors	1	4.00	80	0.48
Building Construction	Cranes	1	8.00	341	0.29
Building Construction	Forklifts	1	8.00	110	0.20
Building Construction	Generator Sets	1	8.00	167	0.74
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Asphalt Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Asphalt Paving	Pavers	0	8.00	125	0.42
Asphalt Paving	Paving Equipment	0	8.00	130	0.36
Asphalt Paving	Rollers	1	8.00	48	0.38
Asphalt Paving	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Architectural Coating	Air Compressors	0	6.00	78	0.48
Finishing/Landscaping	Cement and Mortar Mixers	0	8.00	9	0.56
Finishing/Landscaping	Pavers	0	8.00	125	0.42
Finishing/Landscaping	Paving Equipment	0	8.00	130	0.36
Finishing/Landscaping	Rollers	0	8.00	80	0.38
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	98	0.37

OCMA Project (Construction)
Orange County, Winter

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
Building Demolition	5	13.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	0	0.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demo Debris Haul	0	0.00	0.00	165.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Debris Haul	0	0.00	0.00	65.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul	0	0.00	0.00	10.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Mass Excavation	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Mass Excavation Soil Haul	0	0.00	0.00	4,500.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading Soil Haul	0	0.00	0.00	50.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	323.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	2	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	64.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	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

OCMA Project (Construction)
Orange County, Winter

3.2 Building Demolition - 2018
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581		1,534.9290	1,534.9290	0.4778		1,544.9637
Total	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581		1,534.9290	1,534.9290	0.4778		1,544.9637

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851
Worker	0.0393	0.0531	0.5582	1.6700e-003	0.1453	9.8000e-004	0.1463	0.0385	9.1000e-004	0.0395		129.2493	129.2493	6.0100e-003		129.3755
Total	0.0726	0.3486	1.0042	2.5300e-003	0.1703	5.6400e-003	0.1760	0.0457	5.1900e-003	0.0509		212.4216	212.4216	6.6200e-003		212.5606

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581	0.0000	1,534.9290	1,534.9290	0.4778		1,544.9637
Total	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581	0.0000	1,534.9290	1,534.9290	0.4778		1,544.9637

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851
Worker	0.0393	0.0531	0.5582	1.6700e-003	0.1339	9.8000e-004	0.1349	0.0358	9.1000e-004	0.0367		129.2493	129.2493	6.0100e-003		129.3755
Total	0.0726	0.3486	1.0042	2.5300e-003	0.1573	5.6400e-003	0.1629	0.0425	5.1900e-003	0.0477		212.4216	212.4216	6.6200e-003		212.5606

OCMA Project (Construction)
Orange County, Winter

3.3 Asphalt Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851
Worker	0.0000	0.0000	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	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851
Worker	0.0000	0.0000	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	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851

OCMA Project (Construction)
Orange County, Winter

3.4 Building Demo Debris Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.7695	0.0000	11.7695	1.7820	0.0000	1.7820			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	11.7695	0.0000	11.7695	1.7820	0.0000	1.7820		0.0000	0.0000	0.0000		0.0000

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	0.9743	13.3422	11.8251	0.0403	0.9584	0.2089	1.1673	0.2624	0.1922	0.4546		3,933.6056	3,933.6056	0.0292		3,934.2191
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.9743	13.3422	11.8251	0.0403	0.9584	0.2089	1.1673	0.2624	0.1922	0.4546		3,933.6056	3,933.6056	0.0292		3,934.2191

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.0314	0.0000	5.0314	0.7618	0.0000	0.7618			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	5.0314	0.0000	5.0314	0.7618	0.0000	0.7618	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.9743	13.3422	11.8251	0.0403	0.8929	0.2089	1.1018	0.2464	0.1922	0.4385		3,933.6056	3,933.6056	0.0292		3,934.2191
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.9743	13.3422	11.8251	0.0403	0.8929	0.2089	1.1018	0.2464	0.1922	0.4385		3,933.6056	3,933.6056	0.0292		3,934.2191

OCMA Project (Construction)
Orange County, Winter

3.5 Asphalt Demo Debris Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6365	0.0000	4.6365	0.7020	0.0000	0.7020			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	4.6365	0.0000	4.6365	0.7020	0.0000	0.7020		0.0000	0.0000	0.0000		0.0000

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	0.3838	5.2560	4.6584	0.0159	0.3775	0.0823	0.4598	0.1034	0.0757	0.1791		1,549.6022	1,549.6022	0.0115		1,549.8439
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.3838	5.2560	4.6584	0.0159	0.3775	0.0823	0.4598	0.1034	0.0757	0.1791		1,549.6022	1,549.6022	0.0115		1,549.8439

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.9821	0.0000	1.9821	0.3001	0.0000	0.3001			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	1.9821	0.0000	1.9821	0.3001	0.0000	0.3001	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.3838	5.2560	4.6584	0.0159	0.3518	0.0823	0.4341	0.0971	0.0757	0.1728		1,549.6022	1,549.6022	0.0115		1,549.8439
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.3838	5.2560	4.6584	0.0159	0.3518	0.0823	0.4341	0.0971	0.0757	0.1728		1,549.6022	1,549.6022	0.0115		1,549.8439

OCMA Project (Construction)
Orange County, Winter

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732		316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732		316.0005	316.0005	0.0984		318.0663

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0585	4.8900e-003	0.0634	0.0160	4.4900e-003	0.0205		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0543	4.8900e-003	0.0592	0.0150	4.4900e-003	0.0195		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction)
Orange County, Winter

3.7 Site Preparation Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0113	0.0000	0.0113	1.7100e-003	0.0000	1.7100e-003			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	0.0113	0.0000	0.0113	1.7100e-003	0.0000	1.7100e-003		0.0000	0.0000	0.0000		0.0000

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	0.2036	2.9861	2.3348	9.1100e-003	0.2178	0.0474	0.2651	0.0596	0.0436	0.1032		890.0398	890.0398	6.4900e-003		890.1760
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.2036	2.9861	2.3348	9.1100e-003	0.2178	0.0474	0.2651	0.0596	0.0436	0.1032		890.0398	890.0398	6.4900e-003		890.1760

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8300e-003	0.0000	4.8300e-003	7.3000e-004	0.0000	7.3000e-004			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	4.8300e-003	0.0000	4.8300e-003	7.3000e-004	0.0000	7.3000e-004	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.2036	2.9861	2.3348	9.1100e-003	0.2029	0.0474	0.2502	0.0560	0.0436	0.0995		890.0398	890.0398	6.4900e-003		890.1760
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.2036	2.9861	2.3348	9.1100e-003	0.2029	0.0474	0.2502	0.0560	0.0436	0.0995		890.0398	890.0398	6.4900e-003		890.1760

OCMA Project (Construction)
Orange County, Winter

3.8 Mass Excavation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4002	4.8067	2.6034	8.7100e-003		0.1660	0.1660		0.1527	0.1527		875.8584	875.8584	0.2727		881.5844
Total	0.4002	4.8067	2.6034	8.7100e-003	0.0000	0.1660	0.1660	0.0000	0.1527	0.1527		875.8584	875.8584	0.2727		881.5844

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0585	4.8900e-003	0.0634	0.0160	4.4900e-003	0.0205		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4002	4.8067	2.6034	8.7100e-003		0.1660	0.1660		0.1527	0.1527	0.0000	875.8584	875.8584	0.2727		881.5844
Total	0.4002	4.8067	2.6034	8.7100e-003	0.0000	0.1660	0.1660	0.0000	0.1527	0.1527	0.0000	875.8584	875.8584	0.2727		881.5844

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0543	4.8900e-003	0.0592	0.0150	4.4900e-003	0.0195		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction)
Orange County, Winter

3.9 Utility Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643		299.8780	299.8780	0.0934		301.8385
Total	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643		299.8780	299.8780	0.0934		301.8385

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0585	4.8900e-003	0.0634	0.0160	4.4900e-003	0.0205		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643	0.0000	299.8780	299.8780	0.0934		301.8385
Total	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643	0.0000	299.8780	299.8780	0.0934		301.8385

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0543	4.8900e-003	0.0592	0.0150	4.4900e-003	0.0195		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction)
Orange County, Winter

3.10 Mass Excavation Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1818	0.0000	0.1818	0.0275	0.0000	0.0275			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	0.1818	0.0000	0.1818	0.0275	0.0000	0.0275		0.0000	0.0000	0.0000		0.0000

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	3.2722	47.9915	37.5228	0.1464	3.4997	0.7610	4.2607	0.9583	0.7000	1.6583		14,304.21 12	14,304.211 2	0.1042		14,306.400 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	3.2722	47.9915	37.5228	0.1464	3.4997	0.7610	4.2607	0.9583	0.7000	1.6583		14,304.21 12	14,304.211 2	0.1042		14,306.400 3

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0777	0.0000	0.0777	0.0118	0.0000	0.0118			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0777	0.0000	0.0777	0.0118	0.0000	0.0118	0.0000	0.0000	0.0000	0.0000		0.0000

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	3.2722	47.9915	37.5228	0.1464	3.2606	0.7610	4.0216	0.8996	0.7000	1.5996		14,304.21 12	14,304.211 2	0.1042		14,306.400 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	3.2722	47.9915	37.5228	0.1464	3.2606	0.7610	4.0216	0.8996	0.7000	1.5996		14,304.21 12	14,304.211 2	0.1042		14,306.400 3

OCMA Project (Construction)
Orange County, Winter

3.11 Fine Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732		316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732		316.0005	316.0005	0.0984		318.0663

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0585	4.8900e-003	0.0634	0.0160	4.4900e-003	0.0205		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0543	4.8900e-003	0.0592	0.0150	4.4900e-003	0.0195		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction)
Orange County, Winter

3.12 Fine Grading Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0565	0.0000	0.0565	8.5600e-003	0.0000	8.5600e-003			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	0.0565	0.0000	0.0565	8.5600e-003	0.0000	8.5600e-003		0.0000	0.0000	0.0000		0.0000

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	1.0180	14.9307	11.6738	0.0456	1.0888	0.2368	1.3255	0.2981	0.2178	0.5159		4,450.1990	4,450.1990	0.0324		4,450.8801
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	1.0180	14.9307	11.6738	0.0456	1.0888	0.2368	1.3255	0.2981	0.2178	0.5159		4,450.1990	4,450.1990	0.0324		4,450.8801

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0242	0.0000	0.0242	3.6600e-003	0.0000	3.6600e-003			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0242	0.0000	0.0242	3.6600e-003	0.0000	3.6600e-003	0.0000	0.0000	0.0000	0.0000		0.0000

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	1.0180	14.9307	11.6738	0.0456	1.0144	0.2368	1.2512	0.2799	0.2178	0.4977		4,450.1990	4,450.1990	0.0324		4,450.8801
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	1.0180	14.9307	11.6738	0.0456	1.0144	0.2368	1.2512	0.2799	0.2178	0.4977		4,450.1990	4,450.1990	0.0324		4,450.8801

OCMA Project (Construction)
Orange County, Winter

3.13 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357		2,477.3437	2,477.3437	0.4050		2,485.8492
Total	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357		2,477.3437	2,477.3437	0.4050		2,485.8492

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2494	2.2160	3.3454	6.4300e-003	0.1875	0.0349	0.2224	0.0534	0.0321	0.0855		623.7918	623.7918	4.5900e-003		623.8882
Worker	0.9774	1.3191	13.8679	0.0415	3.6104	0.0244	3.6348	0.9575	0.0226	0.9801		3,211.3486	3,211.3486	0.1493		3,214.4829
Total	1.2269	3.5351	17.2133	0.0479	3.7979	0.0593	3.8572	1.0109	0.0547	1.0656		3,835.1404	3,835.1404	0.1538		3,838.3711

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357	0.0000	2,477.3437	2,477.3437	0.4050		2,485.8492
Total	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357	0.0000	2,477.3437	2,477.3437	0.4050		2,485.8492

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2494	2.2160	3.3454	6.4300e-003	0.1752	0.0349	0.2101	0.0504	0.0321	0.0825		623.7918	623.7918	4.5900e-003		623.8882
Worker	0.9774	1.3191	13.8679	0.0415	3.3279	0.0244	3.3523	0.8882	0.0226	0.9107		3,211.3486	3,211.3486	0.1493		3,214.4829
Total	1.2269	3.5351	17.2133	0.0479	3.5031	0.0593	3.5624	0.9385	0.0547	0.9932		3,835.1404	3,835.1404	0.1538		3,838.3711

OCMA Project (Construction)
Orange County, Winter

3.13 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487		2,460.7789	2,460.7789	0.3987		2,469.1517
Total	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487		2,460.7789	2,460.7789	0.3987		2,469.1517

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2327	2.0544	3.1968	6.4400e-003	0.1875	0.0326	0.2201	0.0534	0.0300	0.0834		615.1255	615.1255	4.6300e-003		615.2227
Worker	0.9136	1.2224	12.9124	0.0417	3.6104	0.0246	3.6350	0.9575	0.0228	0.9803		3,111.0253	3,111.0253	0.1425		3,114.0172
Total	1.1463	3.2768	16.1092	0.0481	3.7979	0.0572	3.8551	1.0109	0.0528	1.0637		3,726.1509	3,726.1509	0.1471		3,729.2400

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487	0.0000	2,460.7789	2,460.7789	0.3987		2,469.1517
Total	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487	0.0000	2,460.7789	2,460.7789	0.3987		2,469.1517

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2327	2.0544	3.1968	6.4400e-003	0.1752	0.0326	0.2078	0.0504	0.0300	0.0804		615.1255	615.1255	4.6300e-003		615.2227
Worker	0.9136	1.2224	12.9124	0.0417	3.3279	0.0246	3.3525	0.8882	0.0228	0.9109		3,111.0253	3,111.0253	0.1425		3,114.0172
Total	1.1463	3.2768	16.1092	0.0481	3.5031	0.0572	3.5603	0.9385	0.0528	0.9913		3,726.1509	3,726.1509	0.1471		3,729.2400

OCMA Project (Construction)
Orange County, Winter

3.13 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630		2,438.2528	2,438.2528	0.3929		2,446.5046
Total	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630		2,438.2528	2,438.2528	0.3929		2,446.5046

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2142	1.7925	3.0555	6.4300e-003	0.1875	0.0297	0.2173	0.0534	0.0274	0.0808		601.1543	601.1543	4.5400e-003		601.2497
Worker	0.8642	1.1412	12.1064	0.0417	3.6104	0.0247	3.6351	0.9575	0.0229	0.9804		2,986.4183	2,986.4183	0.1357		2,989.2687
Total	1.0784	2.9337	15.1619	0.0481	3.7979	0.0544	3.8524	1.0109	0.0503	1.0612		3,587.5726	3,587.5726	0.1403		3,590.5184

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630	0.0000	2,438.2528	2,438.2528	0.3929		2,446.5046
Total	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630	0.0000	2,438.2528	2,438.2528	0.3929		2,446.5046

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2142	1.7925	3.0555	6.4300e-003	0.1752	0.0297	0.2050	0.0504	0.0274	0.0778		601.1543	601.1543	4.5400e-003		601.2497
Worker	0.8642	1.1412	12.1064	0.0417	3.3279	0.0247	3.3526	0.8882	0.0229	0.9111		2,986.4183	2,986.4183	0.1357		2,989.2687
Total	1.0784	2.9337	15.1619	0.0481	3.5031	0.0544	3.5576	0.9385	0.0503	0.9888		3,587.5726	3,587.5726	0.1403		3,590.5184

OCMA Project (Construction)
Orange County, Winter

3.14 Asphalt Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5096	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211		473.0440	473.0440	0.1530		476.2568
Paving	0.0393					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5489	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211		473.0440	473.0440	0.1530		476.2568

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0348	0.0459	0.4873	1.6800e-003	0.1453	9.9000e-004	0.1463	0.0385	9.2000e-004	0.0395		120.1964	120.1964	5.4600e-003		120.3111
Total	0.0348	0.0459	0.4873	1.6800e-003	0.1453	9.9000e-004	0.1463	0.0385	9.2000e-004	0.0395		120.1964	120.1964	5.4600e-003		120.3111

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5096	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211	0.0000	473.0440	473.0440	0.1530		476.2568
Paving	0.0393					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5489	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211	0.0000	473.0440	473.0440	0.1530		476.2568

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0348	0.0459	0.4873	1.6800e-003	0.1339	9.9000e-004	0.1349	0.0358	9.2000e-004	0.0367		120.1964	120.1964	5.4600e-003		120.3111
Total	0.0348	0.0459	0.4873	1.6800e-003	0.1339	9.9000e-004	0.1349	0.0358	9.2000e-004	0.0367		120.1964	120.1964	5.4600e-003		120.3111

OCMA Project (Construction)
Orange County, Winter

3.15 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	75.7623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	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	75.7623	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1712	0.2261	2.3988	8.2500e-003	0.7154	4.8900e-003	0.7203	0.1897	4.5400e-003	0.1943		591.7361	591.7361	0.0269		592.3009
Total	0.1712	0.2261	2.3988	8.2500e-003	0.7154	4.8900e-003	0.7203	0.1897	4.5400e-003	0.1943		591.7361	591.7361	0.0269		592.3009

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	75.7623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	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	75.7623	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1712	0.2261	2.3988	8.2500e-003	0.6594	4.8900e-003	0.6643	0.1760	4.5400e-003	0.1805		591.7361	591.7361	0.0269		592.3009
Total	0.1712	0.2261	2.3988	8.2500e-003	0.6594	4.8900e-003	0.6643	0.1760	4.5400e-003	0.1805		591.7361	591.7361	0.0269		592.3009

OCMA Project (Construction)
Orange County, Winter

3.16 Finishing/Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2117	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237		303.8692	303.8692	0.0983		305.9330
Paving	0.0175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2291	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237		303.8692	303.8692	0.0983		305.9330

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.0300e-003	0.0106	0.1124	3.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1100e-003		27.7376	27.7376	1.2600e-003		27.7641
Total	8.0300e-003	0.0106	0.1124	3.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1100e-003		27.7376	27.7376	1.2600e-003		27.7641

OCMA Project (Construction)
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2117	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237	0.0000	303.8692	303.8692	0.0983		305.9330
Paving	0.0175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2291	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237	0.0000	303.8692	303.8692	0.0983		305.9330

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.0300e-003	0.0106	0.1124	3.9000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		27.7376	27.7376	1.2600e-003		27.7641
Total	8.0300e-003	0.0106	0.1124	3.9000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		27.7376	27.7376	1.2600e-003		27.7641

OCMA Project (Construction)
Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.35	Acre	0.35	115,828.00	0
Other Asphalt Surfaces	0.30	Acre	0.30	0.00	0
Other Non-Asphalt Surfaces	0.16	Acre	0.16	0.00	0
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.19	391,158.00	217

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

OCMA Project (Construction)
Orange County, Summer

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0 Land Use Square Feet to exclude striping

Construction Phase - Based on construction schedule provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant. Share equipment with Building Demolition.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Trips and VMT - Based on information provided by the Applicant.

Demolition -

Grading -

Architectural Coating - Based on construction information provided by the Applicant.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 & 1186

OCMA Project (Construction)
Orange County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	57,914.00	6,950.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	173,742.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	264,032.00	13,202.00
tblArchitecturalCoating	ConstArea_Residential_Interior	792,095.00	633,676.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	200.00	478.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	3.00
tblConstructionPhase	NumDays	20.00	3.00
tblConstructionPhase	NumDays	4.00	23.00
tblConstructionPhase	NumDays	4.00	1.00
tblConstructionPhase	NumDays	4.00	43.00
tblConstructionPhase	NumDays	4.00	28.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	PhaseEndDate	3/27/2020	3/1/2020
tblConstructionPhase	PhaseEndDate	3/7/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	2/6/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	2/6/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	6/4/2018	6/1/2018

OCMA Project (Construction)
Orange County, Summer

tblConstructionPhase	PhaseEndDate	7/11/2018	5/1/2018
tblConstructionPhase	PhaseEndDate	4/29/2020	3/1/2020
tblConstructionPhase	PhaseEndDate	3/2/2018	3/1/2018
tblConstructionPhase	PhaseEndDate	8/1/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	3/2/2020	2/1/2020
tblConstructionPhase	PhaseStartDate	2/2/2018	1/1/2018
tblConstructionPhase	PhaseStartDate	2/2/2018	1/30/2018
tblConstructionPhase	PhaseStartDate	2/2/2018	1/30/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	3/23/2018
tblConstructionPhase	PhaseStartDate	4/2/2020	2/1/2020
tblConstructionPhase	PhaseStartDate	3/2/2018	3/1/2018
tblConstructionPhase	PhaseStartDate	5/2/2018	3/2/2018
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialExported	0.00	45,000.00
tblGrading	MaterialExported	0.00	100.00
tblLandUse	LandUseSquareFeet	15,246.00	115,828.00
tblLandUse	LandUseSquareFeet	13,068.00	0.00
tblLandUse	LandUseSquareFeet	6,969.60	0.00
tblLandUse	LandUseSquareFeet	100,000.00	391,158.00
tblLandUse	LotAcreage	1.56	1.19
tblLandUse	Population	286.00	217.00
tblOffRoadEquipment	HorsePower	81.00	10.00
tblOffRoadEquipment	HorsePower	226.00	341.00
tblOffRoadEquipment	HorsePower	89.00	110.00
tblOffRoadEquipment	HorsePower	84.00	167.00
tblOffRoadEquipment	HorsePower	80.00	48.00

OCMA Project (Construction)
Orange County, Summer

tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	189.00
tblOffRoadEquipment	HorsePower	97.00	98.00
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tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	78.00	80.00
tblOffRoadEquipment	HorsePower	162.00	121.00
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tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

OCMA Project (Construction)
Orange County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00

OCMA Project (Construction)
Orange County, Summer

tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	63.00	50.00
tblTripsAndVMT	HaulingTripNumber	163.00	165.00
tblTripsAndVMT	HaulingTripNumber	64.00	65.00
tblTripsAndVMT	HaulingTripNumber	13.00	10.00
tblTripsAndVMT	HaulingTripNumber	5,625.00	4,500.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	121.00	323.00
tblTripsAndVMT	WorkerTripNumber	5.00	13.00
tblTripsAndVMT	WorkerTripNumber	24.00	64.00

OCMA Project (Construction)
Orange County, Summer

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					
2018	3.8458	54.2991	38.6110	0.1609	17.9371	1.1140	18.7358	2.9026	1.0247	3.6373	0.0000	15,738.219	15,738.219	0.5587	0.0000	15,749.9452
2019	2.7047	19.4532	30.7190	0.0760	3.7979	0.8406	4.6386	1.0109	0.8012	1.8121	0.0000	6,366.6718	6,366.6718	0.5457	0.0000	6,378.1306
2020	79.0134	21.3052	36.0954	0.0914	4.6586	0.9946	5.6531	1.2392	0.9396	2.1787	0.0000	7,423.5189	7,423.5189	0.7184	0.0000	7,438.6057
Total	85.5638	95.0574	105.4253	0.3283	26.3936	2.9491	29.0275	5.1527	2.7655	7.6281	0.0000	29,528.4027	29,528.4027	1.8228	0.0000	29,566.6814

OCMA Project (Construction)
Orange County, Summer

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					
2018	3.8458	54.2991	38.6110	0.1609	8.4389	1.1140	9.2375	1.4545	1.0247	2.1892	0.0000	15,738.219	15,738.2119	0.5587	0.0000	15,749.9452
2019	2.7047	19.4532	30.7190	0.0760	3.5031	0.8406	4.3438	0.9385	0.8012	1.7397	0.0000	6,366.6718	6,366.6718	0.5457	0.0000	6,378.1306
2020	79.0134	21.3052	36.0954	0.0914	4.2965	0.9946	5.2910	1.1503	0.9396	2.0899	0.0000	7,423.5189	7,423.5189	0.7184	0.0000	7,438.6057
Total	85.5638	95.0574	105.4253	0.3283	16.2384	2.9491	18.8723	3.5433	2.7655	6.0188	0.0000	29,528.4027	29,528.4027	1.8228	0.0000	29,566.6814

	ROG	NOx	CO	SO2	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	38.48	0.00	34.98	31.23	0.00	21.10	0.00	0.00	0.00	0.00	0.00	0.00

OCMA Project (Construction)
Orange County, Summer

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	1/1/2018	2/1/2018	5	24	
2	Asphalt Demolition	Demolition	1/1/2018	2/1/2018	5	24	
3	Building Demo Debris Haul	Demolition	1/30/2018	2/1/2018	5	3	
4	Asphalt Demo Debris Haul	Demolition	1/30/2018	2/1/2018	5	3	
5	Site Preparation	Site Preparation	2/2/2018	3/1/2018	5	20	
6	Site Preparation Soil Haul	Site Preparation	3/1/2018	3/1/2018	5	1	
7	Mass Excavation	Grading	3/2/2018	5/1/2018	5	43	
8	Utility Trenching	Trenching	3/2/2018	6/1/2018	5	66	
9	Mass Excavation Soil Haul	Grading	3/23/2018	5/1/2018	5	28	
10	Fine Grading	Grading	5/2/2018	6/1/2018	5	23	
11	Fine Grading Soil Haul	Grading	6/1/2018	6/1/2018	5	1	
12	Building Construction	Building Construction	6/2/2018	4/1/2020	5	478	
13	Asphalt Paving	Paving	2/1/2020	3/1/2020	5	20	
14	Architectural Coating	Architectural Coating	2/1/2020	3/1/2020	5	20	
15	Finishing/Landscaping	Paving	3/2/2020	5/1/2020	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 633,676; Residential Outdoor: 13,202; Non-Residential Indoor: 0; Non-Residential Outdoor: 6,950 (Architectural

OCMA Project (Construction)
Orange County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	1	8.00	10	0.73
Building Demolition	Excavators	1	8.00	121	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Building Demolition	Skid Steer Loaders	1	8.00	73	0.37
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	189	0.37
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Demo Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demo Debris Haul	Rubber Tired Dozers	0	8.00	255	0.40
Building Demo Debris Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Asphalt Demo Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Debris Haul	Rubber Tired Dozers	0	8.00	255	0.40
Asphalt Demo Debris Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Graders	0	8.00	174	0.41
Site Preparation	Scrapers	0	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Site Preparation Soil Haul	Graders	0	8.00	174	0.41
Site Preparation Soil Haul	Scrapers	0	8.00	361	0.48
Site Preparation Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Mass Excavation	Graders	0	8.00	174	0.41
Mass Excavation	Rubber Tired Dozers	0	8.00	255	0.40
Mass Excavation	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37

OCMA Project (Construction)
Orange County, Summer

Mass Excavation Soil Haul	Graders	0	8.00	174	0.41
Mass Excavation Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
Mass Excavation Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Fine Grading	Graders	0	8.00	174	0.41
Fine Grading	Rubber Tired Dozers	0	8.00	255	0.40
Fine Grading	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Fine Grading Soil Haul	Graders	0	8.00	174	0.41
Fine Grading Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
Fine Grading Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Air Compressors	1	4.00	80	0.48
Building Construction	Cranes	1	8.00	341	0.29
Building Construction	Forklifts	1	8.00	110	0.20
Building Construction	Generator Sets	1	8.00	167	0.74
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Asphalt Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Asphalt Paving	Pavers	0	8.00	125	0.42
Asphalt Paving	Paving Equipment	0	8.00	130	0.36
Asphalt Paving	Rollers	1	8.00	48	0.38
Asphalt Paving	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Architectural Coating	Air Compressors	0	6.00	78	0.48
Finishing/Landscaping	Cement and Mortar Mixers	0	8.00	9	0.56
Finishing/Landscaping	Pavers	0	8.00	125	0.42
Finishing/Landscaping	Paving Equipment	0	8.00	130	0.36
Finishing/Landscaping	Rollers	0	8.00	80	0.38
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	98	0.37

OCMA Project (Construction)
Orange County, Summer

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
Building Demolition	5	13.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	0	0.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demo Debris Haul	0	0.00	0.00	165.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Debris Haul	0	0.00	0.00	65.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul	0	0.00	0.00	10.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Mass Excavation	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Mass Excavation Soil Haul	0	0.00	0.00	4,500.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading Soil Haul	0	0.00	0.00	50.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	323.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	2	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	64.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	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

OCMA Project (Construction)
Orange County, Summer

3.2 Building Demolition - 2018
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581		1,534.9290	1,534.9290	0.4778		1,544.9637
Total	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581		1,534.9290	1,534.9290	0.4778		1,544.9637

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954
Worker	0.0375	0.0483	0.5962	1.7600e-003	0.1453	9.8000e-004	0.1463	0.0385	9.1000e-004	0.0395		136.4826	136.4826	6.0100e-003		136.6087
Total	0.0677	0.3373	0.9613	2.6200e-003	0.1703	5.5900e-003	0.1759	0.0457	5.1500e-003	0.0508		220.3655	220.3655	6.6000e-003		220.5041

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581	0.0000	1,534.9290	1,534.9290	0.4778		1,544.9637
Total	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581	0.0000	1,534.9290	1,534.9290	0.4778		1,544.9637

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954
Worker	0.0375	0.0483	0.5962	1.7600e-003	0.1339	9.8000e-004	0.1349	0.0358	9.1000e-004	0.0367		136.4826	136.4826	6.0100e-003		136.6087
Total	0.0677	0.3373	0.9613	2.6200e-003	0.1573	5.5900e-003	0.1629	0.0425	5.1500e-003	0.0476		220.3655	220.3655	6.6000e-003		220.5041

OCMA Project (Construction)
Orange County, Summer

3.3 Asphalt Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954
Worker	0.0000	0.0000	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	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954
Worker	0.0000	0.0000	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	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954

OCMA Project (Construction)
Orange County, Summer

3.4 Building Demo Debris Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.7695	0.0000	11.7695	1.7820	0.0000	1.7820			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	11.7695	0.0000	11.7695	1.7820	0.0000	1.7820		0.0000	0.0000	0.0000		0.0000

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	0.9196	12.9018	10.1892	0.0404	0.9584	0.2085	1.1668	0.2624	0.1917	0.4542		3,943.0190	3,943.0190	0.0288		3,943.6238
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.9196	12.9018	10.1892	0.0404	0.9584	0.2085	1.1668	0.2624	0.1917	0.4542		3,943.0190	3,943.0190	0.0288		3,943.6238

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					5.0314	0.0000	5.0314	0.7618	0.0000	0.7618			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	5.0314	0.0000	5.0314	0.7618	0.0000	0.7618	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.9196	12.9018	10.1892	0.0404	0.8929	0.2085	1.1014	0.2464	0.1917	0.4381		3,943.0190	3,943.0190	0.0288		3,943.6238
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.9196	12.9018	10.1892	0.0404	0.8929	0.2085	1.1014	0.2464	0.1917	0.4381		3,943.0190	3,943.0190	0.0288		3,943.6238

OCMA Project (Construction)
Orange County, Summer

3.5 Asphalt Demo Debris Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6365	0.0000	4.6365	0.7020	0.0000	0.7020			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	4.6365	0.0000	4.6365	0.7020	0.0000	0.7020		0.0000	0.0000	0.0000		0.0000

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	0.3623	5.0825	4.0139	0.0159	0.3775	0.0821	0.4597	0.1034	0.0755	0.1789		1,553.3105	1,553.3105	0.0114		1,553.5488
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.3623	5.0825	4.0139	0.0159	0.3775	0.0821	0.4597	0.1034	0.0755	0.1789		1,553.3105	1,553.3105	0.0114		1,553.5488

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.9821	0.0000	1.9821	0.3001	0.0000	0.3001			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	1.9821	0.0000	1.9821	0.3001	0.0000	0.3001	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.3623	5.0825	4.0139	0.0159	0.3518	0.0821	0.4339	0.0971	0.0755	0.1726		1,553.3105	1,553.3105	0.0114		1,553.5488
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.3623	5.0825	4.0139	0.0159	0.3518	0.0821	0.4339	0.0971	0.0755	0.1726		1,553.3105	1,553.3105	0.0114		1,553.5488

OCMA Project (Construction)
Orange County, Summer

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732		316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732		316.0005	316.0005	0.0984		318.0663

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0585	4.8400e-003	0.0634	0.0160	4.4500e-003	0.0205		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0543	4.8400e-003	0.0591	0.0150	4.4500e-003	0.0194		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction)
Orange County, Summer

3.7 Site Preparation Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0113	0.0000	0.0113	1.7100e-003	0.0000	1.7100e-003			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	0.0113	0.0000	0.0113	1.7100e-003	0.0000	1.7100e-003		0.0000	0.0000	0.0000		0.0000

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	0.1937	2.8853	2.0385	9.1200e-003	0.2178	0.0473	0.2650	0.0596	0.0435	0.1031		891.7513	891.7513	6.4100e-003		891.8860
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.1937	2.8853	2.0385	9.1200e-003	0.2178	0.0473	0.2650	0.0596	0.0435	0.1031		891.7513	891.7513	6.4100e-003		891.8860

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8300e-003	0.0000	4.8300e-003	7.3000e-004	0.0000	7.3000e-004			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	4.8300e-003	0.0000	4.8300e-003	7.3000e-004	0.0000	7.3000e-004	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.1937	2.8853	2.0385	9.1200e-003	0.2029	0.0473	0.2502	0.0560	0.0435	0.0995		891.7513	891.7513	6.4100e-003		891.8860
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.1937	2.8853	2.0385	9.1200e-003	0.2029	0.0473	0.2502	0.0560	0.0435	0.0995		891.7513	891.7513	6.4100e-003		891.8860

OCMA Project (Construction)
Orange County, Summer

3.8 Mass Excavation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4002	4.8067	2.6034	8.7100e-003		0.1660	0.1660		0.1527	0.1527		875.8584	875.8584	0.2727		881.5844
Total	0.4002	4.8067	2.6034	8.7100e-003	0.0000	0.1660	0.1660	0.0000	0.1527	0.1527		875.8584	875.8584	0.2727		881.5844

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0585	4.8400e-003	0.0634	0.0160	4.4500e-003	0.0205		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4002	4.8067	2.6034	8.7100e-003		0.1660	0.1660		0.1527	0.1527	0.0000	875.8584	875.8584	0.2727		881.5844
Total	0.4002	4.8067	2.6034	8.7100e-003	0.0000	0.1660	0.1660	0.0000	0.1527	0.1527	0.0000	875.8584	875.8584	0.2727		881.5844

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0543	4.8400e-003	0.0591	0.0150	4.4500e-003	0.0194		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction)
Orange County, Summer

3.9 Utility Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643		299.8780	299.8780	0.0934		301.8385
Total	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643		299.8780	299.8780	0.0934		301.8385

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0585	4.8400e-003	0.0634	0.0160	4.4500e-003	0.0205		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643	0.0000	299.8780	299.8780	0.0934		301.8385
Total	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643	0.0000	299.8780	299.8780	0.0934		301.8385

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0543	4.8400e-003	0.0591	0.0150	4.4500e-003	0.0194		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction)
Orange County, Summer

3.10 Mass Excavation Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1818	0.0000	0.1818	0.0275	0.0000	0.0275			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	0.1818	0.0000	0.1818	0.0275	0.0000	0.0275		0.0000	0.0000	0.0000		0.0000

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	3.1127	46.3709	32.7618	0.1467	3.4997	0.7596	4.2593	0.9583	0.6988	1.6570		14,331.7177	14,331.7177	0.1031		14,333.8816
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	3.1127	46.3709	32.7618	0.1467	3.4997	0.7596	4.2593	0.9583	0.6988	1.6570		14,331.7177	14,331.7177	0.1031		14,333.8816

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0777	0.0000	0.0777	0.0118	0.0000	0.0118			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0777	0.0000	0.0777	0.0118	0.0000	0.0118	0.0000	0.0000	0.0000	0.0000		0.0000

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	3.1127	46.3709	32.7618	0.1467	3.2606	0.7596	4.0203	0.8996	0.6988	1.5984		14,331.7177	14,331.7177	0.1031		14,333.8816
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	3.1127	46.3709	32.7618	0.1467	3.2606	0.7596	4.0203	0.8996	0.6988	1.5984		14,331.7177	14,331.7177	0.1031		14,333.8816

OCMA Project (Construction)
Orange County, Summer

3.11 Fine Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732		316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732		316.0005	316.0005	0.0984		318.0663

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0585	4.8400e-003	0.0634	0.0160	4.4500e-003	0.0205		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0543	4.8400e-003	0.0591	0.0150	4.4500e-003	0.0194		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction)
Orange County, Summer

3.12 Fine Grading Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0565	0.0000	0.0565	8.5600e-003	0.0000	8.5600e-003			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	0.0565	0.0000	0.0565	8.5600e-003	0.0000	8.5600e-003		0.0000	0.0000	0.0000		0.0000

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	0.9684	14.4265	10.1926	0.0456	1.0888	0.2363	1.3251	0.2981	0.2174	0.5155		4,458.7566	4,458.7566	0.0321		4,459.4298
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.9684	14.4265	10.1926	0.0456	1.0888	0.2363	1.3251	0.2981	0.2174	0.5155		4,458.7566	4,458.7566	0.0321		4,459.4298

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0242	0.0000	0.0242	3.6600e-003	0.0000	3.6600e-003			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0242	0.0000	0.0242	3.6600e-003	0.0000	3.6600e-003	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.9684	14.4265	10.1926	0.0456	1.0144	0.2363	1.2508	0.2799	0.2174	0.4973		4,458.7566	4,458.7566	0.0321		4,459.4298
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.9684	14.4265	10.1926	0.0456	1.0144	0.2363	1.2508	0.2799	0.2174	0.4973		4,458.7566	4,458.7566	0.0321		4,459.4298

OCMA Project (Construction)
Orange County, Summer

3.13 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357		2,477.3437	2,477.3437	0.4050		2,485.8492
Total	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357		2,477.3437	2,477.3437	0.4050		2,485.8492

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2266	2.1673	2.7384	6.4700e-003	0.1875	0.0346	0.2221	0.0534	0.0318	0.0852		629.1222	629.1222	4.4500e-003		629.2156
Worker	0.9313	1.1996	14.8125	0.0438	3.6104	0.0244	3.6348	0.9575	0.0226	0.9801		3,391.0666	3,391.0666	0.1493		3,394.2099
Total	1.1579	3.3668	17.5509	0.0503	3.7979	0.0590	3.8569	1.0109	0.0544	1.0653		4,020.1888	4,020.1888	0.1537		4,023.4165

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357	0.0000	2,477.3437	2,477.3437	0.4050		2,485.8492
Total	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357	0.0000	2,477.3437	2,477.3437	0.4050		2,485.8492

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2266	2.1673	2.7384	6.4700e-003	0.1752	0.0346	0.2098	0.0504	0.0318	0.0822		629.1222	629.1222	4.4500e-003		629.2156
Worker	0.9313	1.1996	14.8125	0.0438	3.3279	0.0244	3.3523	0.8882	0.0226	0.9107		3,391.0666	3,391.0666	0.1493		3,394.2009
Total	1.1579	3.3668	17.5509	0.0503	3.5031	0.0590	3.5621	0.9385	0.0544	0.9929		4,020.1888	4,020.1888	0.1537		4,023.4165

OCMA Project (Construction)
Orange County, Summer

3.13 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487		2,460.7789	2,460.7789	0.3987		2,469.1517
Total	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487		2,460.7789	2,460.7789	0.3987		2,469.1517

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2125	2.0101	2.5933	6.4800e-003	0.1875	0.0323	0.2198	0.0534	0.0297	0.0831		620.3762	620.3762	4.4800e-003		620.4703
Worker	0.8713	1.1118	13.8285	0.0440	3.6104	0.0246	3.6350	0.9575	0.0228	0.9803		3,285.5167	3,285.5167	0.1425		3,288.5086
Total	1.0839	3.1219	16.4218	0.0505	3.7979	0.0569	3.8548	1.0109	0.0525	1.0634		3,905.8929	3,905.8929	0.1470		3,908.9789

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487	0.0000	2,460.7789	2,460.7789	0.3987		2,469.1517
Total	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487	0.0000	2,460.7789	2,460.7789	0.3987		2,469.1517

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2125	2.0101	2.5933	6.4800e-003	0.1752	0.0323	0.2075	0.0504	0.0297	0.0801		620.3762	620.3762	4.4800e-003		620.4703
Worker	0.8713	1.1118	13.8285	0.0440	3.3279	0.0246	3.3525	0.8882	0.0228	0.9109		3,285.5167	3,285.5167	0.1425		3,288.5086
Total	1.0839	3.1219	16.4218	0.0505	3.5031	0.0569	3.5600	0.9385	0.0525	0.9910		3,905.8929	3,905.8929	0.1470		3,908.9789

OCMA Project (Construction)
Orange County, Summer

3.13 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630		2,438.2528	2,438.2528	0.3929		2,446.5046
Total	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630		2,438.2528	2,438.2528	0.3929		2,446.5046

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1965	1.7550	2.4539	6.4700e-003	0.1875	0.0295	0.2170	0.0534	0.0271	0.0805		606.3011	606.3011	4.3900e-003		606.3933
Worker	0.8244	1.0382	12.9855	0.0440	3.6104	0.0247	3.6351	0.9575	0.0229	0.9804		3,154.0313	3,154.0313	0.1357		3,156.8817
Total	1.0210	2.7932	15.4394	0.0505	3.7979	0.0542	3.8521	1.0109	0.0500	1.0609		3,760.3323	3,760.3323	0.1401		3,763.2750

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630	0.0000	2,438.2528	2,438.2528	0.3929		2,446.5046
Total	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630	0.0000	2,438.2528	2,438.2528	0.3929		2,446.5046

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1965	1.7550	2.4539	6.4700e-003	0.1752	0.0295	0.2047	0.0504	0.0271	0.0775		606.3011	606.3011	4.3900e-003		606.3933
Worker	0.8244	1.0382	12.9855	0.0440	3.3279	0.0247	3.3526	0.8882	0.0229	0.9111		3,154.0313	3,154.0313	0.1357		3,156.8817
Total	1.0210	2.7932	15.4394	0.0505	3.5031	0.0542	3.5573	0.9385	0.0500	0.9886		3,760.3323	3,760.3323	0.1401		3,763.2750

OCMA Project (Construction)
Orange County, Summer

3.14 Asphalt Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5096	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211		473.0440	473.0440	0.1530		476.2568
Paving	0.0393					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5489	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211		473.0440	473.0440	0.1530		476.2568

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0332	0.0418	0.5226	1.7700e-003	0.1453	9.9000e-004	0.1463	0.0385	9.2000e-004	0.0395		126.9424	126.9424	5.4600e-003		127.0572
Total	0.0332	0.0418	0.5226	1.7700e-003	0.1453	9.9000e-004	0.1463	0.0385	9.2000e-004	0.0395		126.9424	126.9424	5.4600e-003		127.0572

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5096	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211	0.0000	473.0440	473.0440	0.1530		476.2568
Paving	0.0393					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5489	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211	0.0000	473.0440	473.0440	0.1530		476.2568

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0332	0.0418	0.5226	1.7700e-003	0.1339	9.9000e-004	0.1349	0.0358	9.2000e-004	0.0367		126.9424	126.9424	5.4600e-003		127.0572
Total	0.0332	0.0418	0.5226	1.7700e-003	0.1339	9.9000e-004	0.1349	0.0358	9.2000e-004	0.0367		126.9424	126.9424	5.4600e-003		127.0572

OCMA Project (Construction)
Orange County, Summer

3.15 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	75.7623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	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	75.7623	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1634	0.2057	2.5730	8.7200e-003	0.7154	4.8900e-003	0.7203	0.1897	4.5400e-003	0.1943		624.9474	624.9474	0.0269		625.5122
Total	0.1634	0.2057	2.5730	8.7200e-003	0.7154	4.8900e-003	0.7203	0.1897	4.5400e-003	0.1943		624.9474	624.9474	0.0269		625.5122

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	75.7623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	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	75.7623	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1634	0.2057	2.5730	8.7200e-003	0.6594	4.8900e-003	0.6643	0.1760	4.5400e-003	0.1805		624.9474	624.9474	0.0269		625.5122
Total	0.1634	0.2057	2.5730	8.7200e-003	0.6594	4.8900e-003	0.6643	0.1760	4.5400e-003	0.1805		624.9474	624.9474	0.0269		625.5122

OCMA Project (Construction)
Orange County, Summer

3.16 Finishing/Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2117	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237		303.8692	303.8692	0.0983		305.9330
Paving	0.0175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2291	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237		303.8692	303.8692	0.0983		305.9330

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	7.6600e-003	9.6400e-003	0.1206	4.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1100e-003		29.2944	29.2944	1.2600e-003		29.3209
Total	7.6600e-003	9.6400e-003	0.1206	4.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1100e-003		29.2944	29.2944	1.2600e-003		29.3209

OCMA Project (Construction)
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2117	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237	0.0000	303.8692	303.8692	0.0983		305.9330
Paving	0.0175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2291	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237	0.0000	303.8692	303.8692	0.0983		305.9330

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	7.6600e-003	9.6400e-003	0.1206	4.1000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		29.2944	29.2944	1.2600e-003		29.3209
Total	7.6600e-003	9.6400e-003	0.1206	4.1000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		29.2944	29.2944	1.2600e-003		29.3209

**OCMA Project (Construction)
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.35	Acre	0.35	115,828.00	0
Other Asphalt Surfaces	0.30	Acre	0.30	0.00	0
Other Non-Asphalt Surfaces	0.16	Acre	0.16	0.00	0
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.19	391,158.00	217

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

OCMA Project (Construction)
Orange County, Annual

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0 Land Use Square Feet to exclude striping

Construction Phase - Based on construction schedule provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant. Share equipment with Building Demolition.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Trips and VMT - Based on information provided by the Applicant.

Demolition -

Grading -

Architectural Coating - Based on construction information provided by the Applicant.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 & 1186

OCMA Project (Construction)
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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	57,914.00	6,950.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	173,742.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	264,032.00	13,202.00
tblArchitecturalCoating	ConstArea_Residential_Interior	792,095.00	633,676.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	200.00	478.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	3.00
tblConstructionPhase	NumDays	20.00	3.00
tblConstructionPhase	NumDays	4.00	23.00
tblConstructionPhase	NumDays	4.00	1.00
tblConstructionPhase	NumDays	4.00	43.00
tblConstructionPhase	NumDays	4.00	28.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	PhaseEndDate	3/27/2020	3/1/2020
tblConstructionPhase	PhaseEndDate	3/7/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	2/6/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	2/6/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	6/4/2018	6/1/2018

OCMA Project (Construction)
Orange County, Annual

tblConstructionPhase	PhaseEndDate	7/11/2018	5/1/2018
tblConstructionPhase	PhaseEndDate	4/29/2020	3/1/2020
tblConstructionPhase	PhaseEndDate	3/2/2018	3/1/2018
tblConstructionPhase	PhaseEndDate	8/1/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	3/2/2020	2/1/2020
tblConstructionPhase	PhaseStartDate	2/2/2018	1/1/2018
tblConstructionPhase	PhaseStartDate	2/2/2018	1/30/2018
tblConstructionPhase	PhaseStartDate	2/2/2018	1/30/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	3/23/2018
tblConstructionPhase	PhaseStartDate	4/2/2020	2/1/2020
tblConstructionPhase	PhaseStartDate	3/2/2018	3/1/2018
tblConstructionPhase	PhaseStartDate	5/2/2018	3/2/2018
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialExported	0.00	45,000.00
tblGrading	MaterialExported	0.00	100.00
tblLandUse	LandUseSquareFeet	15,246.00	115,828.00
tblLandUse	LandUseSquareFeet	13,068.00	0.00
tblLandUse	LandUseSquareFeet	6,969.60	0.00
tblLandUse	LandUseSquareFeet	100,000.00	391,158.00
tblLandUse	LotAcreage	1.56	1.19
tblLandUse	Population	286.00	217.00
tblOffRoadEquipment	HorsePower	81.00	10.00
tblOffRoadEquipment	HorsePower	226.00	341.00
tblOffRoadEquipment	HorsePower	89.00	110.00
tblOffRoadEquipment	HorsePower	84.00	167.00
tblOffRoadEquipment	HorsePower	80.00	48.00

OCMA Project (Construction)
Orange County, Annual

tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	189.00
tblOffRoadEquipment	HorsePower	97.00	98.00
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tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	78.00	80.00
tblOffRoadEquipment	HorsePower	162.00	121.00
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tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

OCMA Project (Construction)
Orange County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00

OCMA Project (Construction)
Orange County, Annual

tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	63.00	50.00
tblTripsAndVMT	HaulingTripNumber	163.00	165.00
tblTripsAndVMT	HaulingTripNumber	64.00	65.00
tblTripsAndVMT	HaulingTripNumber	13.00	10.00
tblTripsAndVMT	HaulingTripNumber	5,625.00	4,500.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	121.00	323.00
tblTripsAndVMT	WorkerTripNumber	5.00	13.00
tblTripsAndVMT	WorkerTripNumber	24.00	64.00

OCMA Project (Construction)
Orange County, Annual

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					
2018	0.3059	2.7481	3.2970	8.4300e-003	0.3664	0.1017	0.4680	0.0950	0.0959	0.1909	0.0000	687.6910	687.6910	0.0551	0.0000	688.8483
2019	0.3522	2.5684	3.9869	9.6900e-003	0.4868	0.1097	0.5966	0.1298	0.1046	0.2343	0.0000	738.3859	738.3859	0.0646	0.0000	739.7426
2020	0.8528	0.6701	1.0801	2.6800e-003	0.1323	0.0302	0.1625	0.0353	0.0286	0.0638	0.0000	199.4628	199.4628	0.0197	0.0000	199.8760
Total	1.5109	5.9867	8.3640	0.0208	0.9855	0.2416	1.2271	0.2600	0.2291	0.4891	0.0000	1,625.5397	1,625.5397	0.1394	0.0000	1,628.4669

OCMA Project (Construction)
Orange County, Annual

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					
2018	0.3059	2.7481	3.2970	8.4300e-003	0.3251	0.1017	0.4267	0.0863	0.0959	0.1822	0.0000	687.6908	687.6908	0.0551	0.0000	688.8481
2019	0.3522	2.5684	3.9869	9.6900e-003	0.4492	0.1097	0.5589	0.1205	0.1046	0.2251	0.0000	738.3855	738.3855	0.0646	0.0000	739.7423
2020	0.8528	0.6701	1.0801	2.6800e-003	0.1221	0.0302	0.1523	0.0327	0.0286	0.0613	0.0000	199.4627	199.4627	0.0197	0.0000	199.8759
Total	1.5109	5.9867	8.3640	0.0208	0.8963	0.2416	1.1379	0.2395	0.2291	0.4686	0.0000	1,625.5390	1,625.5390	0.1394	0.0000	1,628.4662

	ROG	NOx	CO	SO2	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	9.05	0.00	7.27	7.87	0.00	4.18	0.00	0.00	0.00	0.00	0.00	0.00

OCMA Project (Construction)
Orange County, Annual

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	1/1/2018	2/1/2018	5	24	
2	Asphalt Demolition	Demolition	1/1/2018	2/1/2018	5	24	
3	Building Demo Debris Haul	Demolition	1/30/2018	2/1/2018	5	3	
4	Asphalt Demo Debris Haul	Demolition	1/30/2018	2/1/2018	5	3	
5	Site Preparation	Site Preparation	2/2/2018	3/1/2018	5	20	
6	Site Preparation Soil Haul	Site Preparation	3/1/2018	3/1/2018	5	1	
7	Mass Excavation	Grading	3/2/2018	5/1/2018	5	43	
8	Utility Trenching	Trenching	3/2/2018	6/1/2018	5	66	
9	Mass Excavation Soil Haul	Grading	3/23/2018	5/1/2018	5	28	
10	Fine Grading	Grading	5/2/2018	6/1/2018	5	23	
11	Fine Grading Soil Haul	Grading	6/1/2018	6/1/2018	5	1	
12	Building Construction	Building Construction	6/2/2018	4/1/2020	5	478	
13	Asphalt Paving	Paving	2/1/2020	3/1/2020	5	20	
14	Architectural Coating	Architectural Coating	2/1/2020	3/1/2020	5	20	
15	Finishing/Landscaping	Paving	3/2/2020	5/1/2020	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 633,676; Residential Outdoor: 13,202; Non-Residential Indoor: 0; Non-Residential Outdoor: 6,950 (Architectural

OCMA Project (Construction)
Orange County, Annual

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	1	8.00	10	0.73
Building Demolition	Excavators	1	8.00	121	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Building Demolition	Skid Steer Loaders	1	8.00	73	0.37
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	189	0.37
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Demo Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demo Debris Haul	Rubber Tired Dozers	0	8.00	255	0.40
Building Demo Debris Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Asphalt Demo Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Debris Haul	Rubber Tired Dozers	0	8.00	255	0.40
Asphalt Demo Debris Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Graders	0	8.00	174	0.41
Site Preparation	Scrapers	0	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Site Preparation Soil Haul	Graders	0	8.00	174	0.41
Site Preparation Soil Haul	Scrapers	0	8.00	361	0.48
Site Preparation Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Mass Excavation	Graders	0	8.00	174	0.41
Mass Excavation	Rubber Tired Dozers	0	8.00	255	0.40
Mass Excavation	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37

OCMA Project (Construction)
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Mass Excavation Soil Haul	Graders	0	8.00	174	0.41
Mass Excavation Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
Mass Excavation Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Fine Grading	Graders	0	8.00	174	0.41
Fine Grading	Rubber Tired Dozers	0	8.00	255	0.40
Fine Grading	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Fine Grading Soil Haul	Graders	0	8.00	174	0.41
Fine Grading Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
Fine Grading Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Air Compressors	1	4.00	80	0.48
Building Construction	Cranes	1	8.00	341	0.29
Building Construction	Forklifts	1	8.00	110	0.20
Building Construction	Generator Sets	1	8.00	167	0.74
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Asphalt Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Asphalt Paving	Pavers	0	8.00	125	0.42
Asphalt Paving	Paving Equipment	0	8.00	130	0.36
Asphalt Paving	Rollers	1	8.00	48	0.38
Asphalt Paving	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Architectural Coating	Air Compressors	0	6.00	78	0.48
Finishing/Landscaping	Cement and Mortar Mixers	0	8.00	9	0.56
Finishing/Landscaping	Pavers	0	8.00	125	0.42
Finishing/Landscaping	Paving Equipment	0	8.00	130	0.36
Finishing/Landscaping	Rollers	0	8.00	80	0.38
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	98	0.37

OCMA Project (Construction)
Orange County, Annual

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
Building Demolition	5	13.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	0	0.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demo Debris Haul	0	0.00	0.00	165.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Debris Haul	0	0.00	0.00	65.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul	0	0.00	0.00	10.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Mass Excavation	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Mass Excavation Soil Haul	0	0.00	0.00	4,500.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading Soil Haul	0	0.00	0.00	50.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	323.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	2	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	64.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	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

OCMA Project (Construction)
Orange County, Annual

3.2 Building Demolition - 2018
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0108	0.1263	0.0941	1.8000e-004		5.9700e-003	5.9700e-003		5.5000e-003	5.5000e-003	0.0000	16.7096	16.7096	5.2000e-003	0.0000	16.8188
Total	0.0108	0.1263	0.0941	1.8000e-004		5.9700e-003	5.9700e-003		5.5000e-003	5.5000e-003	0.0000	16.7096	16.7096	5.2000e-003	0.0000	16.8188

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	3.6200e-003	5.1200e-003	1.0000e-005	3.0000e-004	6.0000e-005	3.5000e-004	8.0000e-005	5.0000e-005	1.4000e-004	0.0000	0.9099	0.9099	1.0000e-005	0.0000	0.9101
Worker	4.4000e-004	6.5000e-004	6.8500e-003	2.0000e-005	1.7100e-003	1.0000e-005	1.7200e-003	4.5000e-004	1.0000e-005	4.7000e-004	0.0000	1.4283	1.4283	7.0000e-005	0.0000	1.4296
Total	8.3000e-004	4.2700e-003	0.0120	3.0000e-005	2.0100e-003	7.0000e-005	2.0700e-003	5.3000e-004	6.0000e-005	6.1000e-004	0.0000	2.3382	2.3382	8.0000e-005	0.0000	2.3397

OCMA Project (Construction)
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0108	0.1263	0.0941	1.8000e-004		5.9700e-003	5.9700e-003		5.5000e-003	5.5000e-003	0.0000	16.7096	16.7096	5.2000e-003	0.0000	16.8188
Total	0.0108	0.1263	0.0941	1.8000e-004		5.9700e-003	5.9700e-003		5.5000e-003	5.5000e-003	0.0000	16.7096	16.7096	5.2000e-003	0.0000	16.8188

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	3.6200e-003	5.1200e-003	1.0000e-005	2.8000e-004	6.0000e-005	3.3000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.9099	0.9099	1.0000e-005	0.0000	0.9101
Worker	4.4000e-004	6.5000e-004	6.8500e-003	2.0000e-005	1.5800e-003	1.0000e-005	1.5900e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4283	1.4283	7.0000e-005	0.0000	1.4296
Total	8.3000e-004	4.2700e-003	0.0120	3.0000e-005	1.8600e-003	7.0000e-005	1.9200e-003	5.0000e-004	6.0000e-005	5.6000e-004	0.0000	2.3382	2.3382	8.0000e-005	0.0000	2.3397

OCMA Project (Construction)
Orange County, Annual

3.3 Asphalt Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	3.6200e-003	5.1200e-003	1.0000e-005	3.0000e-004	6.0000e-005	3.5000e-004	8.0000e-005	5.0000e-005	1.4000e-004	0.0000	0.9099	0.9099	1.0000e-005	0.0000	0.9101
Worker	0.0000	0.0000	0.0000	0.0000	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	3.9000e-004	3.6200e-003	5.1200e-003	1.0000e-005	3.0000e-004	6.0000e-005	3.5000e-004	8.0000e-005	5.0000e-005	1.4000e-004	0.0000	0.9099	0.9099	1.0000e-005	0.0000	0.9101

OCMA Project (Construction)
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	3.6200e-003	5.1200e-003	1.0000e-005	2.8000e-004	6.0000e-005	3.3000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.9099	0.9099	1.0000e-005	0.0000	0.9101
Worker	0.0000	0.0000	0.0000	0.0000	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	3.9000e-004	3.6200e-003	5.1200e-003	1.0000e-005	2.8000e-004	6.0000e-005	3.3000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.9099	0.9099	1.0000e-005	0.0000	0.9101

OCMA Project (Construction)
Orange County, Annual

3.4 Building Demo Debris Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0177	0.0000	0.0177	2.6700e-003	0.0000	2.6700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0177	0.0000	0.0177	2.6700e-003	0.0000	2.6700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	1.4300e-003	0.0204	0.0172	6.0000e-005	1.4200e-003	3.1000e-004	1.7300e-003	3.9000e-004	2.9000e-004	6.8000e-004	0.0000	5.3602	5.3602	4.0000e-005	0.0000	5.3610
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	0.0000	0.0000	0.0000	0.0000	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	1.4300e-003	0.0204	0.0172	6.0000e-005	1.4200e-003	3.1000e-004	1.7300e-003	3.9000e-004	2.9000e-004	6.8000e-004	0.0000	5.3602	5.3602	4.0000e-005	0.0000	5.3610

OCMA Project (Construction)
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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					7.5500e-003	0.0000	7.5500e-003	1.1400e-003	0.0000	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	7.5500e-003	0.0000	7.5500e-003	1.1400e-003	0.0000	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	1.4300e-003	0.0204	0.0172	6.0000e-005	1.3200e-003	3.1000e-004	1.6300e-003	3.6000e-004	2.9000e-004	6.5000e-004	0.0000	5.3602	5.3602	4.0000e-005	0.0000	5.3610
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	0.0000	0.0000	0.0000	0.0000	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	1.4300e-003	0.0204	0.0172	6.0000e-005	1.3200e-003	3.1000e-004	1.6300e-003	3.6000e-004	2.9000e-004	6.5000e-004	0.0000	5.3602	5.3602	4.0000e-005	0.0000	5.3610

OCMA Project (Construction)
Orange County, Annual

3.5 Asphalt Demo Debris Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.9500e-003	0.0000	6.9500e-003	1.0500e-003	0.0000	1.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	6.9500e-003	0.0000	6.9500e-003	1.0500e-003	0.0000	1.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	5.6000e-004	8.0200e-003	6.7600e-003	2.0000e-005	5.6000e-004	1.2000e-004	6.8000e-004	1.5000e-004	1.1000e-004	2.7000e-004	0.0000	2.1116	2.1116	2.0000e-005	0.0000	2.1119
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	0.0000	0.0000	0.0000	0.0000	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	5.6000e-004	8.0200e-003	6.7600e-003	2.0000e-005	5.6000e-004	1.2000e-004	6.8000e-004	1.5000e-004	1.1000e-004	2.7000e-004	0.0000	2.1116	2.1116	2.0000e-005	0.0000	2.1119

OCMA Project (Construction)
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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					2.9700e-003	0.0000	2.9700e-003	4.5000e-004	0.0000	4.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	2.9700e-003	0.0000	2.9700e-003	4.5000e-004	0.0000	4.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	5.6000e-004	8.0200e-003	6.7600e-003	2.0000e-005	5.2000e-004	1.2000e-004	6.4000e-004	1.4000e-004	1.1000e-004	2.6000e-004	0.0000	2.1116	2.1116	2.0000e-005	0.0000	2.1119
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	0.0000	0.0000	0.0000	0.0000	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	5.6000e-004	8.0200e-003	6.7600e-003	2.0000e-005	5.2000e-004	1.2000e-004	6.4000e-004	1.4000e-004	1.1000e-004	2.6000e-004	0.0000	2.1116	2.1116	2.0000e-005	0.0000	2.1119

OCMA Project (Construction)
Orange County, Annual

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0266	0.0236	3.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	2.8667	2.8667	8.9000e-004	0.0000	2.8855
Total	2.6900e-003	0.0266	0.0236	3.0000e-005	0.0000	1.8800e-003	1.8800e-003	0.0000	1.7300e-003	1.7300e-003	0.0000	2.8667	2.8667	8.9000e-004	0.0000	2.8855

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	3.0100e-003	4.2600e-003	1.0000e-005	2.5000e-004	5.0000e-005	2.9000e-004	7.0000e-005	4.0000e-005	1.1000e-004	0.0000	0.7583	0.7583	1.0000e-005	0.0000	0.7584
Worker	8.0000e-005	1.3000e-004	1.3200e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2747	0.2747	1.0000e-005	0.0000	0.2749
Total	4.0000e-004	3.1400e-003	5.5800e-003	1.0000e-005	5.8000e-004	5.0000e-005	6.2000e-004	1.6000e-004	4.0000e-005	2.0000e-004	0.0000	1.0329	1.0329	2.0000e-005	0.0000	1.0333

OCMA Project (Construction)
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0266	0.0236	3.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	2.8667	2.8667	8.9000e-004	0.0000	2.8855
Total	2.6900e-003	0.0266	0.0236	3.0000e-005	0.0000	1.8800e-003	1.8800e-003	0.0000	1.7300e-003	1.7300e-003	0.0000	2.8667	2.8667	8.9000e-004	0.0000	2.8855

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	3.0100e-003	4.2600e-003	1.0000e-005	2.3000e-004	5.0000e-005	2.8000e-004	7.0000e-005	4.0000e-005	1.1000e-004	0.0000	0.7583	0.7583	1.0000e-005	0.0000	0.7584
Worker	8.0000e-005	1.3000e-004	1.3200e-003	0.0000	3.0000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2747	0.2747	1.0000e-005	0.0000	0.2749
Total	4.0000e-004	3.1400e-003	5.5800e-003	1.0000e-005	5.3000e-004	5.0000e-005	5.9000e-004	1.5000e-004	4.0000e-005	1.9000e-004	0.0000	1.0329	1.0329	2.0000e-005	0.0000	1.0333

OCMA Project (Construction)
Orange County, Annual

3.7 Site Preparation Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	1.0000e-004	1.5200e-003	1.1300e-003	0.0000	1.1000e-004	2.0000e-005	1.3000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.4042	0.4042	0.0000	0.0000	0.4042
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	0.0000	0.0000	0.0000	0.0000	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	1.0000e-004	1.5200e-003	1.1300e-003	0.0000	1.1000e-004	2.0000e-005	1.3000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.4042	0.4042	0.0000	0.0000	0.4042

OCMA Project (Construction)
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	1.0000e-004	1.5200e-003	1.1300e-003	0.0000	1.0000e-004	2.0000e-005	1.2000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.4042	0.4042	0.0000	0.0000	0.4042
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	0.0000	0.0000	0.0000	0.0000	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	1.0000e-004	1.5200e-003	1.1300e-003	0.0000	1.0000e-004	2.0000e-005	1.2000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.4042	0.4042	0.0000	0.0000	0.4042

OCMA Project (Construction)
Orange County, Annual

3.8 Mass Excavation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6000e-003	0.1033	0.0560	1.9000e-004		3.5700e-003	3.5700e-003		3.2800e-003	3.2800e-003	0.0000	17.0832	17.0832	5.3200e-003	0.0000	17.1948
Total	8.6000e-003	0.1033	0.0560	1.9000e-004	0.0000	3.5700e-003	3.5700e-003	0.0000	3.2800e-003	3.2800e-003	0.0000	17.0832	17.0832	5.3200e-003	0.0000	17.1948

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	6.4800e-003	9.1700e-003	2.0000e-005	5.3000e-004	1.0000e-004	6.3000e-004	1.5000e-004	9.0000e-005	2.4000e-004	0.0000	1.6303	1.6303	1.0000e-005	0.0000	1.6305
Worker	1.8000e-004	2.7000e-004	2.8300e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5905	0.5905	3.0000e-005	0.0000	0.5911
Total	8.7000e-004	6.7500e-003	0.0120	3.0000e-005	1.2400e-003	1.0000e-004	1.3400e-003	3.4000e-004	9.0000e-005	4.3000e-004	0.0000	2.2208	2.2208	4.0000e-005	0.0000	2.2216

OCMA Project (Construction)
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6000e-003	0.1033	0.0560	1.9000e-004		3.5700e-003	3.5700e-003		3.2800e-003	3.2800e-003	0.0000	17.0831	17.0831	5.3200e-003	0.0000	17.1948
Total	8.6000e-003	0.1033	0.0560	1.9000e-004	0.0000	3.5700e-003	3.5700e-003	0.0000	3.2800e-003	3.2800e-003	0.0000	17.0831	17.0831	5.3200e-003	0.0000	17.1948

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	6.4800e-003	9.1700e-003	2.0000e-005	4.9000e-004	1.0000e-004	5.9000e-004	1.4000e-004	9.0000e-005	2.3000e-004	0.0000	1.6303	1.6303	1.0000e-005	0.0000	1.6305
Worker	1.8000e-004	2.7000e-004	2.8300e-003	1.0000e-005	6.5000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5905	0.5905	3.0000e-005	0.0000	0.5911
Total	8.7000e-004	6.7500e-003	0.0120	3.0000e-005	1.1400e-003	1.0000e-004	1.2500e-003	3.1000e-004	9.0000e-005	4.1000e-004	0.0000	2.2208	2.2208	4.0000e-005	0.0000	2.2216

OCMA Project (Construction)
Orange County, Annual

3.9 Utility Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4200e-003	0.0832	0.0739	1.0000e-004		5.8900e-003	5.8900e-003		5.4200e-003	5.4200e-003	0.0000	8.9775	8.9775	2.7900e-003	0.0000	9.0362
Total	8.4200e-003	0.0832	0.0739	1.0000e-004		5.8900e-003	5.8900e-003		5.4200e-003	5.4200e-003	0.0000	8.9775	8.9775	2.7900e-003	0.0000	9.0362

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	1.0600e-003	9.9400e-003	0.0141	3.0000e-005	8.1000e-004	1.5000e-004	9.7000e-004	2.3000e-004	1.4000e-004	3.7000e-004	0.0000	2.5023	2.5023	2.0000e-005	0.0000	2.5027
Worker	2.8000e-004	4.2000e-004	4.3400e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9064	0.9064	4.0000e-005	0.0000	0.9073
Total	1.3400e-003	0.0104	0.0184	4.0000e-005	1.9000e-003	1.6000e-004	2.0600e-003	5.2000e-004	1.5000e-004	6.7000e-004	0.0000	3.4087	3.4087	6.0000e-005	0.0000	3.4099

OCMA Project (Construction)
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.4200e-003	0.0832	0.0739	1.0000e-004		5.8900e-003	5.8900e-003		5.4200e-003	5.4200e-003	0.0000	8.9775	8.9775	2.7900e-003	0.0000	9.0362
Total	8.4200e-003	0.0832	0.0739	1.0000e-004		5.8900e-003	5.8900e-003		5.4200e-003	5.4200e-003	0.0000	8.9775	8.9775	2.7900e-003	0.0000	9.0362

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	1.0600e-003	9.9400e-003	0.0141	3.0000e-005	7.6000e-004	1.5000e-004	9.1000e-004	2.2000e-004	1.4000e-004	3.6000e-004	0.0000	2.5023	2.5023	2.0000e-005	0.0000	2.5027
Worker	2.8000e-004	4.2000e-004	4.3400e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.9064	0.9064	4.0000e-005	0.0000	0.9073
Total	1.3400e-003	0.0104	0.0184	4.0000e-005	1.7600e-003	1.6000e-004	1.9200e-003	4.9000e-004	1.5000e-004	6.3000e-004	0.0000	3.4087	3.4087	6.0000e-005	0.0000	3.4099

OCMA Project (Construction)
Orange County, Annual

3.10 Mass Excavation Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.5400e-003	0.0000	2.5400e-003	3.9000e-004	0.0000	3.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	2.5400e-003	0.0000	2.5400e-003	3.9000e-004	0.0000	3.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0450	0.6835	0.5098	2.0500e-003	0.0482	0.0106	0.0589	0.0132	9.7900e-003	0.0230	0.0000	181.8745	181.8745	1.3200e-003	0.0000	181.9021
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	0.0000	0.0000	0.0000	0.0000	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	0.0450	0.6835	0.5098	2.0500e-003	0.0482	0.0106	0.0589	0.0132	9.7900e-003	0.0230	0.0000	181.8745	181.8745	1.3200e-003	0.0000	181.9021

OCMA Project (Construction)
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0900e-003	0.0000	1.0900e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	1.0900e-003	0.0000	1.0900e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0450	0.6835	0.5098	2.0500e-003	0.0450	0.0106	0.0556	0.0124	9.7900e-003	0.0222	0.0000	181.8745	181.8745	1.3200e-003	0.0000	181.9021
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	0.0000	0.0000	0.0000	0.0000	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	0.0450	0.6835	0.5098	2.0500e-003	0.0450	0.0106	0.0556	0.0124	9.7900e-003	0.0222	0.0000	181.8745	181.8745	1.3200e-003	0.0000	181.9021

OCMA Project (Construction)
Orange County, Annual

3.11 Fine Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0900e-003	0.0306	0.0272	4.0000e-005		2.1600e-003	2.1600e-003		1.9900e-003	1.9900e-003	0.0000	3.2967	3.2967	1.0300e-003	0.0000	3.3183
Total	3.0900e-003	0.0306	0.0272	4.0000e-005	0.0000	2.1600e-003	2.1600e-003	0.0000	1.9900e-003	1.9900e-003	0.0000	3.2967	3.2967	1.0300e-003	0.0000	3.3183

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	3.4600e-003	4.9000e-003	1.0000e-005	2.8000e-004	5.0000e-005	3.4000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.8720	0.8720	1.0000e-005	0.0000	0.8721
Worker	1.0000e-004	1.4000e-004	1.5100e-003	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3159	0.3159	1.0000e-005	0.0000	0.3162
Total	4.7000e-004	3.6000e-003	6.4100e-003	1.0000e-005	6.6000e-004	5.0000e-005	7.2000e-004	1.8000e-004	5.0000e-005	2.3000e-004	0.0000	1.1879	1.1879	2.0000e-005	0.0000	1.1883

OCMA Project (Construction)
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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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0900e-003	0.0306	0.0272	4.0000e-005		2.1600e-003	2.1600e-003		1.9900e-003	1.9900e-003	0.0000	3.2967	3.2967	1.0300e-003	0.0000	3.3183
Total	3.0900e-003	0.0306	0.0272	4.0000e-005	0.0000	2.1600e-003	2.1600e-003	0.0000	1.9900e-003	1.9900e-003	0.0000	3.2967	3.2967	1.0300e-003	0.0000	3.3183

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	3.4600e-003	4.9000e-003	1.0000e-005	2.6000e-004	5.0000e-005	3.2000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.8720	0.8720	1.0000e-005	0.0000	0.8721
Worker	1.0000e-004	1.4000e-004	1.5100e-003	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3159	0.3159	1.0000e-005	0.0000	0.3162
Total	4.7000e-004	3.6000e-003	6.4100e-003	1.0000e-005	6.1000e-004	5.0000e-005	6.7000e-004	1.7000e-004	5.0000e-005	2.3000e-004	0.0000	1.1879	1.1879	2.0000e-005	0.0000	1.1883

OCMA Project (Construction)
Orange County, Annual

3.12 Fine Grading Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	5.0000e-004	7.5900e-003	5.6600e-003	2.0000e-005	5.4000e-004	1.2000e-004	6.5000e-004	1.5000e-004	1.1000e-004	2.6000e-004	0.0000	2.0208	2.0208	1.0000e-005	0.0000	2.0211
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	0.0000	0.0000	0.0000	0.0000	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	5.0000e-004	7.5900e-003	5.6600e-003	2.0000e-005	5.4000e-004	1.2000e-004	6.5000e-004	1.5000e-004	1.1000e-004	2.6000e-004	0.0000	2.0208	2.0208	1.0000e-005	0.0000	2.0211

OCMA Project (Construction)
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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					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	5.0000e-004	7.5900e-003	5.6600e-003	2.0000e-005	5.0000e-004	1.2000e-004	6.2000e-004	1.4000e-004	1.1000e-004	2.5000e-004	0.0000	2.0208	2.0208	1.0000e-005	0.0000	2.0211
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	0.0000	0.0000	0.0000	0.0000	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	5.0000e-004	7.5900e-003	5.6600e-003	2.0000e-005	5.0000e-004	1.2000e-004	6.2000e-004	1.4000e-004	1.1000e-004	2.5000e-004	0.0000	2.0208	2.0208	1.0000e-005	0.0000	2.0211

OCMA Project (Construction)
Orange County, Annual

3.13 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1332	1.3526	1.1106	1.9300e-003		0.0660	0.0660		0.0631	0.0631	0.0000	169.6793	169.6793	0.0277	0.0000	170.2619
Total	0.1332	1.3526	1.1106	1.9300e-003		0.0660	0.0660		0.0631	0.0631	0.0000	169.6793	169.6793	0.0277	0.0000	170.2619

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	0.0182	0.1706	0.2414	4.9000e-004	0.0140	2.6200e-003	0.0166	3.9800e-003	2.4100e-003	6.3900e-003	0.0000	42.9368	42.9368	3.1000e-004	0.0000	42.9433
Worker	0.0689	0.1023	1.0702	3.1800e-003	0.2677	1.8400e-003	0.2696	0.0711	1.7000e-003	0.0728	0.0000	223.2716	223.2716	0.0102	0.0000	223.4863
Total	0.0871	0.2729	1.3116	3.6700e-003	0.2817	4.4600e-003	0.2861	0.0751	4.1100e-003	0.0792	0.0000	266.2084	266.2084	0.0105	0.0000	266.4296

OCMA Project (Construction)
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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	0.1332	1.3526	1.1106	1.9300e-003		0.0660	0.0660		0.0631	0.0631	0.0000	169.6791	169.6791	0.0277	0.0000	170.2617
Total	0.1332	1.3526	1.1106	1.9300e-003		0.0660	0.0660		0.0631	0.0631	0.0000	169.6791	169.6791	0.0277	0.0000	170.2617

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	0.0182	0.1706	0.2414	4.9000e-004	0.0130	2.6200e-003	0.0157	3.7600e-003	2.4100e-003	6.1700e-003	0.0000	42.9368	42.9368	3.1000e-004	0.0000	42.9433
Worker	0.0689	0.1023	1.0702	3.1800e-003	0.2468	1.8400e-003	0.2487	0.0660	1.7000e-003	0.0677	0.0000	223.2716	223.2716	0.0102	0.0000	223.4863
Total	0.0871	0.2729	1.3116	3.6700e-003	0.2599	4.4600e-003	0.2643	0.0697	4.1100e-003	0.0738	0.0000	266.2084	266.2084	0.0105	0.0000	266.4296

OCMA Project (Construction)
Orange County, Annual

3.13 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2115	2.1312	1.8658	3.3300e-003		0.1023	0.1023		0.0977	0.0977	0.0000	291.3257	291.3257	0.0472	0.0000	292.3170
Total	0.2115	2.1312	1.8658	3.3300e-003		0.1023	0.1023		0.0977	0.0977	0.0000	291.3257	291.3257	0.0472	0.0000	292.3170

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	0.0294	0.2734	0.3978	8.4000e-004	0.0241	4.2300e-003	0.0283	6.8800e-003	3.8900e-003	0.0108	0.0000	73.1838	73.1838	5.4000e-004	0.0000	73.1951
Worker	0.1113	0.1638	1.7234	5.5200e-003	0.4627	3.2100e-003	0.4660	0.1229	2.9700e-003	0.1259	0.0000	373.8764	373.8764	0.0169	0.0000	374.2306
Total	0.1407	0.4372	2.1211	6.3600e-003	0.4869	7.4400e-003	0.4943	0.1298	6.8600e-003	0.1366	0.0000	447.0602	447.0602	0.0174	0.0000	447.4257

OCMA Project (Construction)
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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	0.2115	2.1312	1.8658	3.3300e-003		0.1023	0.1023		0.0977	0.0977	0.0000	291.3254	291.3254	0.0472	0.0000	292.3166
Total	0.2115	2.1312	1.8658	3.3300e-003		0.1023	0.1023		0.0977	0.0977	0.0000	291.3254	291.3254	0.0472	0.0000	292.3166

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	0.0294	0.2734	0.3978	8.4000e-004	0.0225	4.2300e-003	0.0268	6.4900e-003	3.8900e-003	0.0104	0.0000	73.1838	73.1838	5.4000e-004	0.0000	73.1951
Worker	0.1113	0.1638	1.7234	5.5200e-003	0.4266	3.2100e-003	0.4298	0.1140	2.9700e-003	0.1170	0.0000	373.8764	373.8764	0.0169	0.0000	374.2306
Total	0.1407	0.4372	2.1211	6.3600e-003	0.4492	7.4400e-003	0.4566	0.1205	6.8600e-003	0.1274	0.0000	447.0602	447.0602	0.0174	0.0000	447.4257

OCMA Project (Construction)
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3.13 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0490	0.4844	0.4533	8.4000e-004		0.0229	0.0229		0.0219	0.0219	0.0000	72.9942	72.9942	0.0118	0.0000	73.2413
Total	0.0490	0.4844	0.4533	8.4000e-004		0.0229	0.0229		0.0219	0.0219	0.0000	72.9942	72.9942	0.0118	0.0000	73.2413

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8500e-003	0.0603	0.0959	2.1000e-004	6.1000e-003	9.8000e-004	7.0700e-003	1.7400e-003	9.0000e-004	2.6400e-003	0.0000	18.0862	18.0862	1.3000e-004	0.0000	18.0890
Worker	0.0266	0.0387	0.4087	1.4000e-003	0.1170	8.1000e-004	0.1178	0.0311	7.6000e-004	0.0318	0.0000	90.7576	90.7576	4.0600e-003	0.0000	90.8429
Total	0.0335	0.0990	0.5046	1.6100e-003	0.1231	1.7900e-003	0.1249	0.0328	1.6600e-003	0.0345	0.0000	108.8437	108.8437	4.1900e-003	0.0000	108.9319

OCMA Project (Construction)
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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	0.0490	0.4844	0.4533	8.4000e-004		0.0229	0.0229		0.0219	0.0219	0.0000	72.9941	72.9941	0.0118	0.0000	73.2412
Total	0.0490	0.4844	0.4533	8.4000e-004		0.0229	0.0229		0.0219	0.0219	0.0000	72.9941	72.9941	0.0118	0.0000	73.2412

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8500e-003	0.0603	0.0959	2.1000e-004	5.7000e-003	9.8000e-004	6.6700e-003	1.6400e-003	9.0000e-004	2.5400e-003	0.0000	18.0862	18.0862	1.3000e-004	0.0000	18.0890
Worker	0.0266	0.0387	0.4087	1.4000e-003	0.1079	8.1000e-004	0.1087	0.0288	7.6000e-004	0.0296	0.0000	90.7576	90.7576	4.0600e-003	0.0000	90.8429
Total	0.0335	0.0990	0.5046	1.6100e-003	0.1136	1.7900e-003	0.1154	0.0305	1.6600e-003	0.0321	0.0000	108.8437	108.8437	4.1900e-003	0.0000	108.9319

OCMA Project (Construction)
Orange County, Annual

3.14 Asphalt Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.1000e-003	0.0359	0.0382	5.0000e-005		2.4000e-003	2.4000e-003		2.2100e-003	2.2100e-003	0.0000	4.2914	4.2914	1.3900e-003	0.0000	4.3205
Paving	3.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.4900e-003	0.0359	0.0382	5.0000e-005		2.4000e-003	2.4000e-003		2.2100e-003	2.2100e-003	0.0000	4.2914	4.2914	1.3900e-003	0.0000	4.3205

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	3.2000e-004	4.7000e-004	4.9900e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1069	1.1069	5.0000e-005	0.0000	1.1079
Total	3.2000e-004	4.7000e-004	4.9900e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1069	1.1069	5.0000e-005	0.0000	1.1079

OCMA Project (Construction)
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.1000e-003	0.0359	0.0382	5.0000e-005		2.4000e-003	2.4000e-003		2.2100e-003	2.2100e-003	0.0000	4.2914	4.2914	1.3900e-003	0.0000	4.3205
Paving	3.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.4900e-003	0.0359	0.0382	5.0000e-005		2.4000e-003	2.4000e-003		2.2100e-003	2.2100e-003	0.0000	4.2914	4.2914	1.3900e-003	0.0000	4.3205

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	3.2000e-004	4.7000e-004	4.9900e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1069	1.1069	5.0000e-005	0.0000	1.1079
Total	3.2000e-004	4.7000e-004	4.9900e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1069	1.1069	5.0000e-005	0.0000	1.1079

OCMA Project (Construction)
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3.15 Architectural Coating - 2020
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7576					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.7576	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	1.6000e-003	2.3200e-003	0.0245	8.0000e-005	7.0300e-003	5.0000e-005	7.0700e-003	1.8700e-003	5.0000e-005	1.9100e-003	0.0000	5.4494	5.4494	2.4000e-004	0.0000	5.4545
Total	1.6000e-003	2.3200e-003	0.0245	8.0000e-005	7.0300e-003	5.0000e-005	7.0700e-003	1.8700e-003	5.0000e-005	1.9100e-003	0.0000	5.4494	5.4494	2.4000e-004	0.0000	5.4545

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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					
Archit. Coating	0.7576					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.7576	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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-003	2.3200e-003	0.0245	8.0000e-005	6.4800e-003	5.0000e-005	6.5300e-003	1.7300e-003	5.0000e-005	1.7800e-003	0.0000	5.4494	5.4494	2.4000e-004	0.0000	5.4545
Total	1.6000e-003	2.3200e-003	0.0245	8.0000e-005	6.4800e-003	5.0000e-005	6.5300e-003	1.7300e-003	5.0000e-005	1.7800e-003	0.0000	5.4494	5.4494	2.4000e-004	0.0000	5.4545

OCMA Project (Construction)
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3.16 Finishing/Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7600e-003	0.0479	0.0518	7.0000e-005		3.0300e-003	3.0300e-003		2.7800e-003	2.7800e-003	0.0000	6.2025	6.2025	2.0100e-003	0.0000	6.2446
Paving	3.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.1500e-003	0.0479	0.0518	7.0000e-005		3.0300e-003	3.0300e-003		2.7800e-003	2.7800e-003	0.0000	6.2025	6.2025	2.0100e-003	0.0000	6.2446

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	1.7000e-004	2.4000e-004	2.5900e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.5747	0.5747	3.0000e-005	0.0000	0.5753
Total	1.7000e-004	2.4000e-004	2.5900e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.5747	0.5747	3.0000e-005	0.0000	0.5753

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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	4.7600e-003	0.0479	0.0518	7.0000e-005		3.0300e-003	3.0300e-003		2.7800e-003	2.7800e-003	0.0000	6.2025	6.2025	2.0100e-003	0.0000	6.2446
Paving	3.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.1500e-003	0.0479	0.0518	7.0000e-005		3.0300e-003	3.0300e-003		2.7800e-003	2.7800e-003	0.0000	6.2025	6.2025	2.0100e-003	0.0000	6.2446

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	1.7000e-004	2.4000e-004	2.5900e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5747	0.5747	3.0000e-005	0.0000	0.5753
Total	1.7000e-004	2.4000e-004	2.5900e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5747	0.5747	3.0000e-005	0.0000	0.5753

OCMA Project (Construction)
Orange 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
Asphalt Demo Debris Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt 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
Asphalt 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
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
Building Demo Debris Haul	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 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
Fine 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
Fine Grading Soil Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/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
Mass Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Excavation Soil Haul	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
Site Preparation Soil Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OCMA Project (Construction)
Orange County, Mitigation Report

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	0	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	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	0	No Change	0.00
Pavers	Diesel	No Change	0	0	No Change	0.00
Paving Equipment	Diesel	No Change	0	0	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	0	No Change	0.00
Scrapers	Diesel	No Change	0	0	No Change	0.00
Skid Steer Loaders	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00
Welders	Diesel	No Change	0	0	No Change	0.00

OCMA Project (Construction)
Orange County, Mitigation Report

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	4.46600E-002	3.05310E-001	3.01350E-001	4.90000E-004	2.17700E-002	2.17700E-002	0.00000E+000	4.17250E+001	4.17250E+001	3.62000E-003	0.00000E+000	4.18011E+001
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	1.46590E-001	1.81049E+000	1.24855E+000	2.03000E-003	7.29200E-002	6.70800E-002	0.00000E+000	1.83076E+002	1.83076E+002	5.78000E-002	0.00000E+000	1.84290E+002
Excavators	2.66000E-003	2.84500E-002	3.01000E-002	5.00000E-005	1.38000E-003	1.27000E-003	0.00000E+000	4.33174E+000	4.33174E+000	1.35000E-003	0.00000E+000	4.36005E+000
Forklifts	4.83000E-002	4.30220E-001	3.53780E-001	4.50000E-004	3.35100E-002	3.08300E-002	0.00000E+000	4.06374E+001	4.06374E+001	1.28300E-002	0.00000E+000	4.09068E+001
Generator Sets	1.54180E-001	1.42221E+000	1.52601E+000	3.13000E-003	6.30000E-002	6.30000E-002	0.00000E+000	2.68561E+002	2.68561E+002	1.24500E-002	0.00000E+000	2.68823E+002
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	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	2.98000E-003	1.45900E-002	1.52000E-002	2.00000E-005	1.06000E-003	9.70000E-004	0.00000E+000	1.53473E+000	1.53473E+000	5.00000E-004	0.00000E+000	1.54515E+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
Scrapers	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
Skid Steer Loaders	1.23000E-003	1.63500E-002	1.87600E-002	3.00000E-005	8.00000E-004	7.40000E-004	0.00000E+000	2.54159E+000	2.54159E+000	7.90000E-004	0.00000E+000	2.55820E+000
Tractors/Loaders/Bulldozers	3.65800E-002	3.94250E-001	3.00780E-001	5.60000E-004	2.16800E-002	1.99400E-002	0.00000E+000	5.10194E+001	5.10194E+001	1.59900E-002	0.00000E+000	5.13553E+001
Welders	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

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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	4.46600E-002	3.05310E-001	3.01350E-001	4.90000E-004	2.17700E-002	2.17700E-002	0.00000E+000	4.17249E+001	4.17249E+001	3.62000E-003	0.00000E+000	4.18010E+001
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	1.46590E-001	1.81048E+000	1.24855E+000	2.03000E-003	7.29200E-002	6.70800E-002	0.00000E+000	1.83076E+002	1.83076E+002	5.78000E-002	0.00000E+000	1.84289E+002
Excavators	2.66000E-003	2.84500E-002	3.01000E-002	5.00000E-005	1.38000E-003	1.27000E-003	0.00000E+000	4.33173E+000	4.33173E+000	1.35000E-003	0.00000E+000	4.36005E+000
Forklifts	4.83000E-002	4.30220E-001	3.53780E-001	4.50000E-004	3.35100E-002	3.08300E-002	0.00000E+000	4.06374E+001	4.06374E+001	1.28300E-002	0.00000E+000	4.09068E+001
Generator Sets	1.54180E-001	1.42220E+000	1.52601E+000	3.13000E-003	6.30000E-002	6.30000E-002	0.00000E+000	2.68561E+002	2.68561E+002	1.24500E-002	0.00000E+000	2.68822E+002
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	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	2.98000E-003	1.45900E-002	1.52000E-002	2.00000E-005	1.06000E-003	9.70000E-004	0.00000E+000	1.53473E+000	1.53473E+000	5.00000E-004	0.00000E+000	1.54515E+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
Scrapers	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
Skid Steer Loaders	1.23000E-003	1.63500E-002	1.87600E-002	3.00000E-005	8.00000E-004	7.40000E-004	0.00000E+000	2.54158E+000	2.54158E+000	7.90000E-004	0.00000E+000	2.55820E+000
Tractors/Loaders/Bac khoss	3.65800E-002	3.94250E-001	3.00780E-001	5.60000E-004	2.16800E-002	1.99400E-002	0.00000E+000	5.10194E+001	5.10194E+001	1.59900E-002	0.00000E+000	5.13552E+001
Welders	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

OCMA Project (Construction)
Orange County, Mitigation Report

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	1.19832E-006	1.19832E-006	0.00000E+000	0.00000E+000	1.19614E-006
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	5.52337E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20169E-006	1.20169E-006	0.00000E+000	0.00000E+000	1.19377E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.30854E-006	2.30854E-006	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.84315E-007	9.84315E-007	0.00000E+000	0.00000E+000	1.22229E-006
Generator Sets	0.00000E+000	7.03131E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19154E-006	1.19154E-006	0.00000E+000	0.00000E+000	1.19038E-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	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
Scrapers	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
Skid Steer Loaders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.93454E-006	3.93454E-006	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Bac khoss	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17602E-006	1.17602E-006	0.00000E+000	0.00000E+000	1.16833E-006
Welders	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

OCMA Project (Construction)
Orange County, Mitigation Report

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			

OCMA Project (Construction)
Orange County, Mitigation Report

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	0.07
Asphalt Demo Debris Haul	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.57
Asphalt Demo Debris Haul	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Asphalt Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.00
Asphalt Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paving	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	0.89	0.24	0.82	0.22	0.08	0.07
Building Demo Debris Haul	Fugitive Dust	0.00	0.00	0.01	0.00	0.57	0.57
Building Demo Debris Haul	Roads	0.00	0.00	0.00	0.00	0.07	0.08
Building Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.06
Fine Grading	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading	Roads	0.00	0.00	0.00	0.00	0.08	0.06
Fine Grading Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.67	0.00
Fine Grading Soil Haul	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Finishing/Landscaping	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	Roads	0.00	0.00	0.00	0.00	0.08	0.10
Mass Excavation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00

OCMA Project (Construction)
Orange County, Mitigation Report

Mass Excavation	Roads	0.00	0.00	0.00	0.00	0.08	0.09
Mass Excavation Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.59
Mass Excavation Soil Haul	Roads	0.05	0.01	0.04	0.01	0.07	0.06
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.09	0.06
Site Preparation Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	1.00	0.00
Site Preparation Soil Haul	Roads	0.00	0.00	0.00	0.00	0.09	0.00
Utility Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	Roads	0.00	0.00	0.00	0.00	0.07	0.06

OCMA Project (Construction) With Mitigation
Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.35	Acre	0.35	115,828.00	0
Other Asphalt Surfaces	0.30	Acre	0.30	0.00	0
Other Non-Asphalt Surfaces	0.16	Acre	0.16	0.00	0
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.19	391,158.00	217

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

OCMA Project (Construction) With Mitigation
Orange County, Winter

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0 Land Use Square Feet to exclude striping

Construction Phase - Based on construction schedule provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant. Share equipment with Building Demolition.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Trips and VMT - Based on information provided by the Applicant.

Demolition -

Grading -

Architectural Coating - Based on construction information provided by the Applicant.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 & 1186

OCMA Project (Construction) With Mitigation
Orange County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	57,914.00	6,950.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	173,742.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	264,032.00	13,202.00
tblArchitecturalCoating	ConstArea_Residential_Interior	792,095.00	633,676.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	0.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	200.00	478.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	7.00
tblConstructionPhase	NumDays	20.00	7.00
tblConstructionPhase	NumDays	4.00	23.00
tblConstructionPhase	NumDays	4.00	1.00
tblConstructionPhase	NumDays	4.00	43.00
tblConstructionPhase	NumDays	4.00	28.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	PhaseEndDate	3/27/2020	3/1/2020
tblConstructionPhase	PhaseEndDate	3/7/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	2/12/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	2/12/2018	2/1/2018

OCMA Project (Construction) With Mitigation
Orange County, Winter

tblConstructionPhase	PhaseEndDate	6/4/2018	6/1/2018
tblConstructionPhase	PhaseEndDate	7/11/2018	5/1/2018
tblConstructionPhase	PhaseEndDate	4/29/2020	3/1/2020
tblConstructionPhase	PhaseEndDate	3/2/2018	3/1/2018
tblConstructionPhase	PhaseEndDate	8/1/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	3/2/2020	2/1/2020
tblConstructionPhase	PhaseStartDate	2/2/2018	1/1/2018
tblConstructionPhase	PhaseStartDate	2/2/2018	1/24/2018
tblConstructionPhase	PhaseStartDate	2/2/2018	1/24/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	3/23/2018
tblConstructionPhase	PhaseStartDate	4/2/2020	2/1/2020
tblConstructionPhase	PhaseStartDate	3/2/2018	3/1/2018
tblConstructionPhase	PhaseStartDate	5/2/2018	3/2/2018
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialExported	0.00	45,000.00
tblGrading	MaterialExported	0.00	100.00
tblLandUse	LandUseSquareFeet	15,246.00	115,828.00
tblLandUse	LandUseSquareFeet	13,068.00	0.00
tblLandUse	LandUseSquareFeet	6,969.60	0.00
tblLandUse	LandUseSquareFeet	100,000.00	391,158.00
tblLandUse	LotAcreage	1.56	1.19
tblLandUse	Population	286.00	217.00
tblOffRoadEquipment	HorsePower	81.00	10.00
tblOffRoadEquipment	HorsePower	226.00	341.00
tblOffRoadEquipment	HorsePower	89.00	110.00
tblOffRoadEquipment	HorsePower	84.00	167.00

OCMA Project (Construction) With Mitigation
Orange County, Winter

tblOffRoadEquipment	HorsePower	80.00	48.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	189.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	78.00	80.00
tblOffRoadEquipment	HorsePower	162.00	121.00
tblOffRoadEquipment	HorsePower	64.00	73.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

OCMA Project (Construction) With Mitigation
Orange County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00

OCMA Project (Construction) With Mitigation
Orange County, Winter

tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	63.00	50.00
tblTripsAndVMT	HaulingTripNumber	163.00	165.00
tblTripsAndVMT	HaulingTripNumber	64.00	65.00
tblTripsAndVMT	HaulingTripNumber	13.00	10.00
tblTripsAndVMT	HaulingTripNumber	5,625.00	4,500.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	121.00	323.00
tblTripsAndVMT	WorkerTripNumber	5.00	13.00
tblTripsAndVMT	WorkerTripNumber	24.00	64.00

OCMA Project (Construction) With Mitigation
Orange County, Winter

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					
2018	4.0123	55.9349	43.5163	0.1606	7.7989	1.1154	8.4319	1.2741	1.0261	2.0439	0.0000	15,705.9456	15,705.9456	0.5589	0.0000	15,717.6818
2019	2.7670	19.6081	30.4063	0.0736	3.7979	0.8410	4.6389	1.0109	0.8015	1.8124	0.0000	6,186.9297	6,186.9297	0.5458	0.0000	6,198.3916
2020	5.6531	21.4702	35.6083	0.0884	4.6586	0.9948	5.6534	1.2392	0.9398	2.1790	0.0000	7,210.8019	7,210.8019	0.7186	0.0000	7,225.8919
Total	12.4324	97.0131	109.5309	0.3226	16.2555	2.9512	18.7242	3.5242	2.7674	6.0352	0.0000	29,103.6772	29,103.6772	1.8232	0.0000	29,141.9653

OCMA Project (Construction) With Mitigation
Orange County, Winter

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					
2018	4.0123	55.9349	43.5163	0.1606	3.7199	1.1154	4.5623	0.9413	1.0261	1.9674	0.0000	15,705.9456	15,705.9456	0.5589	0.0000	15,717.6818
2019	2.7670	19.6081	30.4063	0.0736	3.5031	0.8410	4.3441	0.9385	0.8015	1.7400	0.0000	6,186.9297	6,186.9297	0.5458	0.0000	6,198.3916
2020	5.6531	21.4702	35.6083	0.0884	4.2965	0.9948	5.2913	1.1503	0.9398	2.0901	0.0000	7,210.8019	7,210.8019	0.7186	0.0000	7,225.8919
Total	12.4324	97.0131	109.5309	0.3226	11.5194	2.9512	14.1976	3.0301	2.7674	5.7975	0.0000	29,103.6772	29,103.6772	1.8232	0.0000	29,141.9653

	ROG	NOx	CO	SO2	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	29.13	0.00	24.18	14.02	0.00	3.94	0.00	0.00	0.00	0.00	0.00	0.00

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	1/1/2018	2/1/2018	5	24	
2	Asphalt Demolition	Demolition	1/1/2018	2/1/2018	5	24	
3	Building Demo Debris Haul	Demolition	1/24/2018	2/1/2018	5	7	
4	Asphalt Demo Debris Haul	Demolition	1/24/2018	2/1/2018	5	7	
5	Site Preparation	Site Preparation	2/2/2018	3/1/2018	5	20	
6	Site Preparation Soil Haul	Site Preparation	3/1/2018	3/1/2018	5	1	
7	Mass Excavation	Grading	3/2/2018	5/1/2018	5	43	
8	Utility Trenching	Trenching	3/2/2018	6/1/2018	5	66	
9	Mass Excavation Soil Haul	Grading	3/23/2018	5/1/2018	5	28	
10	Fine Grading	Grading	5/2/2018	6/1/2018	5	23	
11	Fine Grading Soil Haul	Grading	6/1/2018	6/1/2018	5	1	
12	Building Construction	Building Construction	6/2/2018	4/1/2020	5	478	
13	Asphalt Paving	Paving	2/1/2020	3/1/2020	5	20	
14	Architectural Coating	Architectural Coating	2/1/2020	3/1/2020	5	20	
15	Finishing/Landscaping	Paving	3/2/2020	5/1/2020	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 633,676; Residential Outdoor: 13,202; Non-Residential Indoor: 0; Non-Residential Outdoor: 6,950 (Architectural

OCMA Project (Construction) With Mitigation
Orange County, Winter

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	1	8.00	10	0.73
Building Demolition	Excavators	1	8.00	121	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Building Demolition	Skid Steer Loaders	1	8.00	73	0.37
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	189	0.37
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Demo Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demo Debris Haul	Rubber Tired Dozers	0	8.00	255	0.40
Building Demo Debris Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Asphalt Demo Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Debris Haul	Rubber Tired Dozers	0	8.00	255	0.40
Asphalt Demo Debris Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Graders	0	8.00	174	0.41
Site Preparation	Scrapers	0	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Site Preparation Soil Haul	Graders	0	8.00	174	0.41
Site Preparation Soil Haul	Scrapers	0	8.00	361	0.48
Site Preparation Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Mass Excavation	Graders	0	8.00	174	0.41
Mass Excavation	Rubber Tired Dozers	0	8.00	255	0.40
Mass Excavation	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mass Excavation Soil Haul	Graders	0	8.00	174	0.41
Mass Excavation Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
Mass Excavation Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Fine Grading	Graders	0	8.00	174	0.41
Fine Grading	Rubber Tired Dozers	0	8.00	255	0.40
Fine Grading	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Fine Grading Soil Haul	Graders	0	8.00	174	0.41
Fine Grading Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
Fine Grading Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Air Compressors	1	4.00	80	0.48
Building Construction	Cranes	1	8.00	341	0.29
Building Construction	Forklifts	1	8.00	110	0.20
Building Construction	Generator Sets	1	8.00	167	0.74
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Asphalt Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Asphalt Paving	Pavers	0	8.00	125	0.42
Asphalt Paving	Paving Equipment	0	8.00	130	0.36
Asphalt Paving	Rollers	1	8.00	48	0.38
Asphalt Paving	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Architectural Coating	Air Compressors	0	6.00	78	0.48
Finishing/Landscaping	Cement and Mortar Mixers	0	8.00	9	0.56
Finishing/Landscaping	Pavers	0	8.00	125	0.42
Finishing/Landscaping	Paving Equipment	0	8.00	130	0.36
Finishing/Landscaping	Rollers	0	8.00	80	0.38
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	98	0.37

OCMA Project (Construction) With Mitigation
Orange County, Winter

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
Building Demolition	5	13.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	0	0.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demo Debris Haul	0	0.00	0.00	165.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Debris Haul	0	0.00	0.00	65.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul	0	0.00	0.00	10.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Mass Excavation	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Mass Excavation Soil Haul	0	0.00	0.00	4,500.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading Soil Haul	0	0.00	0.00	50.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	323.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	2	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	64.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	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

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.2 Building Demolition - 2018
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581		1,534.9290	1,534.9290	0.4778		1,544.9637
Total	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581		1,534.9290	1,534.9290	0.4778		1,544.9637

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851
Worker	0.0393	0.0531	0.5582	1.6700e-003	0.1453	9.8000e-004	0.1463	0.0385	9.1000e-004	0.0395		129.2493	129.2493	6.0100e-003		129.3755
Total	0.0726	0.3486	1.0042	2.5300e-003	0.1703	5.6400e-003	0.1760	0.0457	5.1900e-003	0.0509		212.4216	212.4216	6.6200e-003		212.5606

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581	0.0000	1,534.9290	1,534.9290	0.4778		1,544.9637
Total	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581	0.0000	1,534.9290	1,534.9290	0.4778		1,544.9637

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851
Worker	0.0393	0.0531	0.5582	1.6700e-003	0.1339	9.8000e-004	0.1349	0.0358	9.1000e-004	0.0367		129.2493	129.2493	6.0100e-003		129.3755
Total	0.0726	0.3486	1.0042	2.5300e-003	0.1573	5.6400e-003	0.1629	0.0425	5.1900e-003	0.0477		212.4216	212.4216	6.6200e-003		212.5606

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.3 Asphalt Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851
Worker	0.0000	0.0000	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	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851
Worker	0.0000	0.0000	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	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.4 Building Demo Debris Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.0441	0.0000	5.0441	0.7637	0.0000	0.7637			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	5.0441	0.0000	5.0441	0.7637	0.0000	0.7637		0.0000	0.0000	0.0000		0.0000

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	0.4176	5.7181	5.0679	0.0173	0.4107	0.0895	0.5003	0.1125	0.0824	0.1948		1,685.8310	1,685.8310	0.0125		1,686.0939
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.4176	5.7181	5.0679	0.0173	0.4107	0.0895	0.5003	0.1125	0.0824	0.1948		1,685.8310	1,685.8310	0.0125		1,686.0939

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.1563	0.0000	2.1563	0.3265	0.0000	0.3265			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	2.1563	0.0000	2.1563	0.3265	0.0000	0.3265	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.4176	5.7181	5.0679	0.0173	0.3827	0.0895	0.4722	0.1056	0.0824	0.1880		1,685.8310	1,685.8310	0.0125		1,686.0939
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.4176	5.7181	5.0679	0.0173	0.3827	0.0895	0.4722	0.1056	0.0824	0.1880		1,685.8310	1,685.8310	0.0125		1,686.0939

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.5 Asphalt Demo Debris Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9871	0.0000	1.9871	0.3009	0.0000	0.3009			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	1.9871	0.0000	1.9871	0.3009	0.0000	0.3009		0.0000	0.0000	0.0000		0.0000

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	0.1645	2.2526	1.9965	6.8000e-003	0.1618	0.0353	0.1971	0.0443	0.0324	0.0768		664.1152	664.1152	4.9300e-003		664.2188
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.1645	2.2526	1.9965	6.8000e-003	0.1618	0.0353	0.1971	0.0443	0.0324	0.0768		664.1152	664.1152	4.9300e-003		664.2188

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.8495	0.0000	0.8495	0.1286	0.0000	0.1286			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.8495	0.0000	0.8495	0.1286	0.0000	0.1286	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.1645	2.2526	1.9965	6.8000e-003	0.1508	0.0353	0.1860	0.0416	0.0324	0.0740		664.1152	664.1152	4.9300e-003		664.2188
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.1645	2.2526	1.9965	6.8000e-003	0.1508	0.0353	0.1860	0.0416	0.0324	0.0740		664.1152	664.1152	4.9300e-003		664.2188

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732		316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732		316.0005	316.0005	0.0984		318.0663

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0585	4.8900e-003	0.0634	0.0160	4.4900e-003	0.0205		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0543	4.8900e-003	0.0592	0.0150	4.4900e-003	0.0195		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.7 Site Preparation Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0113	0.0000	0.0113	1.7100e-003	0.0000	1.7100e-003			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	0.0113	0.0000	0.0113	1.7100e-003	0.0000	1.7100e-003		0.0000	0.0000	0.0000		0.0000

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	0.2036	2.9861	2.3348	9.1100e-003	0.2178	0.0474	0.2651	0.0596	0.0436	0.1032		890.0398	890.0398	6.4900e-003		890.1760
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.2036	2.9861	2.3348	9.1100e-003	0.2178	0.0474	0.2651	0.0596	0.0436	0.1032		890.0398	890.0398	6.4900e-003		890.1760

OCMA Project (Construction) With Mitigation

Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8300e-003	0.0000	4.8300e-003	7.3000e-004	0.0000	7.3000e-004			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	4.8300e-003	0.0000	4.8300e-003	7.3000e-004	0.0000	7.3000e-004	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.2036	2.9861	2.3348	9.1100e-003	0.2029	0.0474	0.2502	0.0560	0.0436	0.0995		890.0398	890.0398	6.4900e-003		890.1760
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.2036	2.9861	2.3348	9.1100e-003	0.2029	0.0474	0.2502	0.0560	0.0436	0.0995		890.0398	890.0398	6.4900e-003		890.1760

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.8 Mass Excavation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4002	4.8067	2.6034	8.7100e-003		0.1660	0.1660		0.1527	0.1527		875.8584	875.8584	0.2727		881.5844
Total	0.4002	4.8067	2.6034	8.7100e-003	0.0000	0.1660	0.1660	0.0000	0.1527	0.1527		875.8584	875.8584	0.2727		881.5844

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0585	4.8900e-003	0.0634	0.0160	4.4900e-003	0.0205		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4002	4.8067	2.6034	8.7100e-003		0.1660	0.1660		0.1527	0.1527	0.0000	875.8584	875.8584	0.2727		881.5844
Total	0.4002	4.8067	2.6034	8.7100e-003	0.0000	0.1660	0.1660	0.0000	0.1527	0.1527	0.0000	875.8584	875.8584	0.2727		881.5844

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0543	4.8900e-003	0.0592	0.0150	4.4900e-003	0.0195		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction) With Mitigation

Orange County, Winter

3.9 Utility Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643		299.8780	299.8780	0.0934		301.8385
Total	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643		299.8780	299.8780	0.0934		301.8385

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0585	4.8900e-003	0.0634	0.0160	4.4900e-003	0.0205		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643	0.0000	299.8780	299.8780	0.0934		301.8385
Total	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643	0.0000	299.8780	299.8780	0.0934		301.8385

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0543	4.8900e-003	0.0592	0.0150	4.4900e-003	0.0195		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.10 Mass Excavation Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1818	0.0000	0.1818	0.0275	0.0000	0.0275			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	0.1818	0.0000	0.1818	0.0275	0.0000	0.0275		0.0000	0.0000	0.0000		0.0000

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	3.2722	47.9915	37.5228	0.1464	3.4997	0.7610	4.2607	0.9583	0.7000	1.6583		14,304.21 12	14,304.211 2	0.1042		14,306.400 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	3.2722	47.9915	37.5228	0.1464	3.4997	0.7610	4.2607	0.9583	0.7000	1.6583		14,304.21 12	14,304.211 2	0.1042		14,306.400 3

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0777	0.0000	0.0777	0.0118	0.0000	0.0118			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0777	0.0000	0.0777	0.0118	0.0000	0.0118	0.0000	0.0000	0.0000	0.0000		0.0000

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	3.2722	47.9915	37.5228	0.1464	3.2606	0.7610	4.0216	0.8996	0.7000	1.5996		14,304.21 12	14,304.211 2	0.1042		14,306.400 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	3.2722	47.9915	37.5228	0.1464	3.2606	0.7610	4.0216	0.8996	0.7000	1.5996		14,304.21 12	14,304.211 2	0.1042		14,306.400 3

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.11 Fine Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732		316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732		316.0005	316.0005	0.0984		318.0663

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0250	4.6600e-003	0.0297	7.1200e-003	4.2800e-003	0.0114		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0585	4.8900e-003	0.0634	0.0160	4.4900e-003	0.0205		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0333	0.2955	0.4461	8.6000e-004	0.0234	4.6600e-003	0.0280	6.7200e-003	4.2800e-003	0.0110		83.1722	83.1722	6.1000e-004		83.1851
Worker	9.0800e-003	0.0123	0.1288	3.9000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		29.8268	29.8268	1.3900e-003		29.8559
Total	0.0423	0.3077	0.5749	1.2500e-003	0.0543	4.8900e-003	0.0592	0.0150	4.4900e-003	0.0195		112.9990	112.9990	2.0000e-003		113.0410

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.12 Fine Grading Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0565	0.0000	0.0565	8.5600e-003	0.0000	8.5600e-003			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	0.0565	0.0000	0.0565	8.5600e-003	0.0000	8.5600e-003		0.0000	0.0000	0.0000		0.0000

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	1.0180	14.9307	11.6738	0.0456	1.0888	0.2368	1.3255	0.2981	0.2178	0.5159		4,450.1990	4,450.1990	0.0324		4,450.8801
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	1.0180	14.9307	11.6738	0.0456	1.0888	0.2368	1.3255	0.2981	0.2178	0.5159		4,450.1990	4,450.1990	0.0324		4,450.8801

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0242	0.0000	0.0242	3.6600e-003	0.0000	3.6600e-003			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0242	0.0000	0.0242	3.6600e-003	0.0000	3.6600e-003	0.0000	0.0000	0.0000	0.0000		0.0000

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	1.0180	14.9307	11.6738	0.0456	1.0144	0.2368	1.2512	0.2799	0.2178	0.4977		4,450.1990	4,450.1990	0.0324		4,450.8801
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	1.0180	14.9307	11.6738	0.0456	1.0144	0.2368	1.2512	0.2799	0.2178	0.4977		4,450.1990	4,450.1990	0.0324		4,450.8801

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.13 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357		2,477.3437	2,477.3437	0.4050		2,485.8492
Total	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357		2,477.3437	2,477.3437	0.4050		2,485.8492

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2494	2.2160	3.3454	6.4300e-003	0.1875	0.0349	0.2224	0.0534	0.0321	0.0855		623.7918	623.7918	4.5900e-003		623.8882
Worker	0.9774	1.3191	13.8679	0.0415	3.6104	0.0244	3.6348	0.9575	0.0226	0.9801		3,211.3486	3,211.3486	0.1493		3,214.4829
Total	1.2269	3.5351	17.2133	0.0479	3.7979	0.0593	3.8572	1.0109	0.0547	1.0656		3,835.1404	3,835.1404	0.1538		3,838.3711

OCMA Project (Construction) With Mitigation Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357	0.0000	2,477.3437	2,477.3437	0.4050		2,485.8492
Total	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357	0.0000	2,477.3437	2,477.3437	0.4050		2,485.8492

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2494	2.2160	3.3454	6.4300e-003	0.1752	0.0349	0.2101	0.0504	0.0321	0.0825		623.7918	623.7918	4.5900e-003		623.8882
Worker	0.9774	1.3191	13.8679	0.0415	3.3279	0.0244	3.3523	0.8882	0.0226	0.9107		3,211.3486	3,211.3486	0.1493		3,214.4829
Total	1.2269	3.5351	17.2133	0.0479	3.5031	0.0593	3.5624	0.9385	0.0547	0.9932		3,835.1404	3,835.1404	0.1538		3,838.3711

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.13 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487		2,460.7789	2,460.7789	0.3987		2,469.1517
Total	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487		2,460.7789	2,460.7789	0.3987		2,469.1517

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2327	2.0544	3.1968	6.4400e-003	0.1875	0.0326	0.2201	0.0534	0.0300	0.0834		615.1255	615.1255	4.6300e-003		615.2227
Worker	0.9136	1.2224	12.9124	0.0417	3.6104	0.0246	3.6350	0.9575	0.0228	0.9803		3,111.0253	3,111.0253	0.1425		3,114.0172
Total	1.1463	3.2768	16.1092	0.0481	3.7979	0.0572	3.8551	1.0109	0.0528	1.0637		3,726.1509	3,726.1509	0.1471		3,729.2400

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487	0.0000	2,460.7789	2,460.7789	0.3987		2,469.1517
Total	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487	0.0000	2,460.7789	2,460.7789	0.3987		2,469.1517

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2327	2.0544	3.1968	6.4400e-003	0.1752	0.0326	0.2078	0.0504	0.0300	0.0804		615.1255	615.1255	4.6300e-003		615.2227
Worker	0.9136	1.2224	12.9124	0.0417	3.3279	0.0246	3.3525	0.8882	0.0228	0.9109		3,111.0253	3,111.0253	0.1425		3,114.0172
Total	1.1463	3.2768	16.1092	0.0481	3.5031	0.0572	3.5603	0.9385	0.0528	0.9913		3,726.1509	3,726.1509	0.1471		3,729.2400

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.13 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630		2,438.2528	2,438.2528	0.3929		2,446.5046
Total	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630		2,438.2528	2,438.2528	0.3929		2,446.5046

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2142	1.7925	3.0555	6.4300e-003	0.1875	0.0297	0.2173	0.0534	0.0274	0.0808		601.1543	601.1543	4.5400e-003		601.2497
Worker	0.8642	1.1412	12.1064	0.0417	3.6104	0.0247	3.6351	0.9575	0.0229	0.9804		2,986.4183	2,986.4183	0.1357		2,989.2687
Total	1.0784	2.9337	15.1619	0.0481	3.7979	0.0544	3.8524	1.0109	0.0503	1.0612		3,587.5726	3,587.5726	0.1403		3,590.5184

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630	0.0000	2,438.2528	2,438.2528	0.3929		2,446.5046
Total	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630	0.0000	2,438.2528	2,438.2528	0.3929		2,446.5046

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2142	1.7925	3.0555	6.4300e-003	0.1752	0.0297	0.2050	0.0504	0.0274	0.0778		601.1543	601.1543	4.5400e-003		601.2497
Worker	0.8642	1.1412	12.1064	0.0417	3.3279	0.0247	3.3526	0.8882	0.0229	0.9111		2,986.4183	2,986.4183	0.1357		2,989.2687
Total	1.0784	2.9337	15.1619	0.0481	3.5031	0.0544	3.5576	0.9385	0.0503	0.9888		3,587.5726	3,587.5726	0.1403		3,590.5184

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.14 Asphalt Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5096	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211		473.0440	473.0440	0.1530		476.2568
Paving	0.0393					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5489	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211		473.0440	473.0440	0.1530		476.2568

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0348	0.0459	0.4873	1.6800e-003	0.1453	9.9000e-004	0.1463	0.0385	9.2000e-004	0.0395		120.1964	120.1964	5.4600e-003		120.3111
Total	0.0348	0.0459	0.4873	1.6800e-003	0.1453	9.9000e-004	0.1463	0.0385	9.2000e-004	0.0395		120.1964	120.1964	5.4600e-003		120.3111

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5096	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211	0.0000	473.0440	473.0440	0.1530		476.2568
Paving	0.0393					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5489	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211	0.0000	473.0440	473.0440	0.1530		476.2568

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0348	0.0459	0.4873	1.6800e-003	0.1339	9.9000e-004	0.1349	0.0358	9.2000e-004	0.0367		120.1964	120.1964	5.4600e-003		120.3111
Total	0.0348	0.0459	0.4873	1.6800e-003	0.1339	9.9000e-004	0.1349	0.0358	9.2000e-004	0.0367		120.1964	120.1964	5.4600e-003		120.3111

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.15 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.3351					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	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	2.3351	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1712	0.2261	2.3988	8.2500e-003	0.7154	4.8900e-003	0.7203	0.1897	4.5400e-003	0.1943		591.7361	591.7361	0.0269		592.3009
Total	0.1712	0.2261	2.3988	8.2500e-003	0.7154	4.8900e-003	0.7203	0.1897	4.5400e-003	0.1943		591.7361	591.7361	0.0269		592.3009

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.3351					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	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	2.3351	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1712	0.2261	2.3988	8.2500e-003	0.6594	4.8900e-003	0.6643	0.1760	4.5400e-003	0.1805		591.7361	591.7361	0.0269		592.3009
Total	0.1712	0.2261	2.3988	8.2500e-003	0.6594	4.8900e-003	0.6643	0.1760	4.5400e-003	0.1805		591.7361	591.7361	0.0269		592.3009

OCMA Project (Construction) With Mitigation
Orange County, Winter

3.16 Finishing/Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2117	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237		303.8692	303.8692	0.0983		305.9330
Paving	0.0175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2291	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237		303.8692	303.8692	0.0983		305.9330

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.0300e-003	0.0106	0.1124	3.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1100e-003		27.7376	27.7376	1.2600e-003		27.7641
Total	8.0300e-003	0.0106	0.1124	3.9000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1100e-003		27.7376	27.7376	1.2600e-003		27.7641

OCMA Project (Construction) With Mitigation
Orange County, Winter

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2117	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237	0.0000	303.8692	303.8692	0.0983		305.9330
Paving	0.0175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2291	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237	0.0000	303.8692	303.8692	0.0983		305.9330

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.0300e-003	0.0106	0.1124	3.9000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		27.7376	27.7376	1.2600e-003		27.7641
Total	8.0300e-003	0.0106	0.1124	3.9000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		27.7376	27.7376	1.2600e-003		27.7641

**OCMA Project (Construction) With Mitigation
Orange County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.35	Acre	0.35	115,828.00	0
Other Asphalt Surfaces	0.30	Acre	0.30	0.00	0
Other Non-Asphalt Surfaces	0.16	Acre	0.16	0.00	0
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.19	391,158.00	217

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

OCMA Project (Construction) With Mitigation
Orange County, Summer

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0 Land Use Square Feet to exclude striping

Construction Phase - Based on construction schedule provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant. Share equipment with Building Demolition.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Trips and VMT - Based on information provided by the Applicant.

Demolition -

Grading -

Architectural Coating - Based on construction information provided by the Applicant.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 & 1186

OCMA Project (Construction) With Mitigation
Orange County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	57,914.00	6,950.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	173,742.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	264,032.00	13,202.00
tblArchitecturalCoating	ConstArea_Residential_Interior	792,095.00	633,676.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	0.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	200.00	478.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	7.00
tblConstructionPhase	NumDays	20.00	7.00
tblConstructionPhase	NumDays	4.00	23.00
tblConstructionPhase	NumDays	4.00	1.00
tblConstructionPhase	NumDays	4.00	43.00
tblConstructionPhase	NumDays	4.00	28.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	PhaseEndDate	3/27/2020	3/1/2020
tblConstructionPhase	PhaseEndDate	3/7/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	2/12/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	2/12/2018	2/1/2018

OCMA Project (Construction) With Mitigation
Orange County, Summer

tblConstructionPhase	PhaseEndDate	6/4/2018	6/1/2018
tblConstructionPhase	PhaseEndDate	7/11/2018	5/1/2018
tblConstructionPhase	PhaseEndDate	4/29/2020	3/1/2020
tblConstructionPhase	PhaseEndDate	3/2/2018	3/1/2018
tblConstructionPhase	PhaseEndDate	8/1/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	3/2/2020	2/1/2020
tblConstructionPhase	PhaseStartDate	2/2/2018	1/1/2018
tblConstructionPhase	PhaseStartDate	2/2/2018	1/24/2018
tblConstructionPhase	PhaseStartDate	2/2/2018	1/24/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	3/23/2018
tblConstructionPhase	PhaseStartDate	4/2/2020	2/1/2020
tblConstructionPhase	PhaseStartDate	3/2/2018	3/1/2018
tblConstructionPhase	PhaseStartDate	5/2/2018	3/2/2018
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialExported	0.00	45,000.00
tblGrading	MaterialExported	0.00	100.00
tblLandUse	LandUseSquareFeet	15,246.00	115,828.00
tblLandUse	LandUseSquareFeet	13,068.00	0.00
tblLandUse	LandUseSquareFeet	6,969.60	0.00
tblLandUse	LandUseSquareFeet	100,000.00	391,158.00
tblLandUse	LotAcreage	1.56	1.19
tblLandUse	Population	286.00	217.00
tblOffRoadEquipment	HorsePower	81.00	10.00
tblOffRoadEquipment	HorsePower	226.00	341.00
tblOffRoadEquipment	HorsePower	89.00	110.00
tblOffRoadEquipment	HorsePower	84.00	167.00

**OCMA Project (Construction) With Mitigation
Orange County, Summer**

tblOffRoadEquipment	HorsePower	80.00	48.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	189.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	78.00	80.00
tblOffRoadEquipment	HorsePower	162.00	121.00
tblOffRoadEquipment	HorsePower	64.00	73.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

OCMA Project (Construction) With Mitigation
Orange County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00

OCMA Project (Construction) With Mitigation
Orange County, Summer

tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	63.00	50.00
tblTripsAndVMT	HaulingTripNumber	163.00	165.00
tblTripsAndVMT	HaulingTripNumber	64.00	65.00
tblTripsAndVMT	HaulingTripNumber	13.00	10.00
tblTripsAndVMT	HaulingTripNumber	5,625.00	4,500.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	121.00	323.00
tblTripsAndVMT	WorkerTripNumber	5.00	13.00
tblTripsAndVMT	WorkerTripNumber	24.00	64.00

OCMA Project (Construction) With Mitigation
Orange County, Summer

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					
2018	3.8458	54.2991	38.6110	0.1609	7.7989	1.1140	8.4316	1.2741	1.0247	2.0426	0.0000	15,738.219	15,738.219	0.5587	0.0000	15,749.9452
2019	2.7047	19.4532	30.7190	0.0760	3.7979	0.8406	4.6386	1.0109	0.8012	1.8121	0.0000	6,366.6718	6,366.6718	0.5457	0.0000	6,378.1306
2020	5.5862	21.3052	36.0954	0.0914	4.6586	0.9946	5.6531	1.2392	0.9396	2.1787	0.0000	7,423.5189	7,423.5189	0.7184	0.0000	7,438.6057
Total	12.1366	95.0574	105.4253	0.3283	16.2555	2.9491	18.7232	3.5242	2.7655	6.0334	0.0000	29,528.4027	29,528.4027	1.8228	0.0000	29,566.6814

OCMA Project (Construction) With Mitigation
Orange County, Summer

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					
2018	3.8458	54.2991	38.6110	0.1609	3.7199	1.1140	4.5608	0.9413	1.0247	1.9660	0.0000	15,738.219	15,738.2119	0.5587	0.0000	15,749.9452
2019	2.7047	19.4532	30.7190	0.0760	3.5031	0.8406	4.3438	0.9385	0.8012	1.7397	0.0000	6,366.6718	6,366.6718	0.5457	0.0000	6,378.1306
2020	5.5862	21.3052	36.0954	0.0914	4.2965	0.9946	5.2910	1.1503	0.9396	2.0899	0.0000	7,423.5189	7,423.5189	0.7184	0.0000	7,438.6057
Total	12.1366	95.0574	105.4253	0.3283	11.5194	2.9491	14.1956	3.0301	2.7655	5.7956	0.0000	29,528.4027	29,528.4027	1.8228	0.0000	29,566.6814

	ROG	NOx	CO	SO2	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	29.13	0.00	24.18	14.02	0.00	3.94	0.00	0.00	0.00	0.00	0.00	0.00

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	1/1/2018	2/1/2018	5	24	
2	Asphalt Demolition	Demolition	1/1/2018	2/1/2018	5	24	
3	Building Demo Debris Haul	Demolition	1/24/2018	2/1/2018	5	7	
4	Asphalt Demo Debris Haul	Demolition	1/24/2018	2/1/2018	5	7	
5	Site Preparation	Site Preparation	2/2/2018	3/1/2018	5	20	
6	Site Preparation Soil Haul	Site Preparation	3/1/2018	3/1/2018	5	1	
7	Mass Excavation	Grading	3/2/2018	5/1/2018	5	43	
8	Utility Trenching	Trenching	3/2/2018	6/1/2018	5	66	
9	Mass Excavation Soil Haul	Grading	3/23/2018	5/1/2018	5	28	
10	Fine Grading	Grading	5/2/2018	6/1/2018	5	23	
11	Fine Grading Soil Haul	Grading	6/1/2018	6/1/2018	5	1	
12	Building Construction	Building Construction	6/2/2018	4/1/2020	5	478	
13	Asphalt Paving	Paving	2/1/2020	3/1/2020	5	20	
14	Architectural Coating	Architectural Coating	2/1/2020	3/1/2020	5	20	
15	Finishing/Landscaping	Paving	3/2/2020	5/1/2020	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 633,676; Residential Outdoor: 13,202; Non-Residential Indoor: 0; Non-Residential Outdoor: 6,950 (Architectural

OCMA Project (Construction) With Mitigation
Orange County, Summer

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	1	8.00	10	0.73
Building Demolition	Excavators	1	8.00	121	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Building Demolition	Skid Steer Loaders	1	8.00	73	0.37
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	189	0.37
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Demo Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demo Debris Haul	Rubber Tired Dozers	0	8.00	255	0.40
Building Demo Debris Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Asphalt Demo Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Debris Haul	Rubber Tired Dozers	0	8.00	255	0.40
Asphalt Demo Debris Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Graders	0	8.00	174	0.41
Site Preparation	Scrapers	0	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Site Preparation Soil Haul	Graders	0	8.00	174	0.41
Site Preparation Soil Haul	Scrapers	0	8.00	361	0.48
Site Preparation Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Mass Excavation	Graders	0	8.00	174	0.41
Mass Excavation	Rubber Tired Dozers	0	8.00	255	0.40
Mass Excavation	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mass Excavation Soil Haul	Graders	0	8.00	174	0.41
Mass Excavation Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
Mass Excavation Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Fine Grading	Graders	0	8.00	174	0.41
Fine Grading	Rubber Tired Dozers	0	8.00	255	0.40
Fine Grading	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Fine Grading Soil Haul	Graders	0	8.00	174	0.41
Fine Grading Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
Fine Grading Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Air Compressors	1	4.00	80	0.48
Building Construction	Cranes	1	8.00	341	0.29
Building Construction	Forklifts	1	8.00	110	0.20
Building Construction	Generator Sets	1	8.00	167	0.74
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Asphalt Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Asphalt Paving	Pavers	0	8.00	125	0.42
Asphalt Paving	Paving Equipment	0	8.00	130	0.36
Asphalt Paving	Rollers	1	8.00	48	0.38
Asphalt Paving	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Architectural Coating	Air Compressors	0	6.00	78	0.48
Finishing/Landscaping	Cement and Mortar Mixers	0	8.00	9	0.56
Finishing/Landscaping	Pavers	0	8.00	125	0.42
Finishing/Landscaping	Paving Equipment	0	8.00	130	0.36
Finishing/Landscaping	Rollers	0	8.00	80	0.38
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	98	0.37

OCMA Project (Construction) With Mitigation
Orange County, Summer

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
Building Demolition	5	13.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	0	0.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demo Debris Haul	0	0.00	0.00	165.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Debris Haul	0	0.00	0.00	65.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul	0	0.00	0.00	10.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Mass Excavation	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Mass Excavation Soil Haul	0	0.00	0.00	4,500.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading Soil Haul	0	0.00	0.00	50.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	323.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	2	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	64.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	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

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.2 Building Demolition - 2018
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581		1,534.9290	1,534.9290	0.4778		1,544.9637
Total	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581		1,534.9290	1,534.9290	0.4778		1,544.9637

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954
Worker	0.0375	0.0483	0.5962	1.7600e-003	0.1453	9.8000e-004	0.1463	0.0385	9.1000e-004	0.0395		136.4826	136.4826	6.0100e-003		136.6087
Total	0.0677	0.3373	0.9613	2.6200e-003	0.1703	5.5900e-003	0.1759	0.0457	5.1500e-003	0.0508		220.3655	220.3655	6.6000e-003		220.5041

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581	0.0000	1,534.9290	1,534.9290	0.4778		1,544.9637
Total	0.8987	10.5216	7.8442	0.0153		0.4979	0.4979		0.4581	0.4581	0.0000	1,534.9290	1,534.9290	0.4778		1,544.9637

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954
Worker	0.0375	0.0483	0.5962	1.7600e-003	0.1339	9.8000e-004	0.1349	0.0358	9.1000e-004	0.0367		136.4826	136.4826	6.0100e-003		136.6087
Total	0.0677	0.3373	0.9613	2.6200e-003	0.1573	5.5900e-003	0.1629	0.0425	5.1500e-003	0.0476		220.3655	220.3655	6.6000e-003		220.5041

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.3 Asphalt Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954
Worker	0.0000	0.0000	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	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954
Worker	0.0000	0.0000	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	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.4 Building Demo Debris Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.0441	0.0000	5.0441	0.7637	0.0000	0.7637			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	5.0441	0.0000	5.0441	0.7637	0.0000	0.7637		0.0000	0.0000	0.0000		0.0000

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	0.3941	5.5293	4.3668	0.0173	0.4107	0.0893	0.5001	0.1125	0.0822	0.1947		1,689.8653	1,689.8653	0.0123		1,690.1245
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.3941	5.5293	4.3668	0.0173	0.4107	0.0893	0.5001	0.1125	0.0822	0.1947		1,689.8653	1,689.8653	0.0123		1,690.1245

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.1563	0.0000	2.1563	0.3265	0.0000	0.3265			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	2.1563	0.0000	2.1563	0.3265	0.0000	0.3265	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.3941	5.5293	4.3668	0.0173	0.3827	0.0893	0.4720	0.1056	0.0822	0.1878		1,689.8653	1,689.8653	0.0123		1,690.1245
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.3941	5.5293	4.3668	0.0173	0.3827	0.0893	0.4720	0.1056	0.0822	0.1878		1,689.8653	1,689.8653	0.0123		1,690.1245

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.5 Asphalt Demo Debris Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.9871	0.0000	1.9871	0.3009	0.0000	0.3009			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	1.9871	0.0000	1.9871	0.3009	0.0000	0.3009		0.0000	0.0000	0.0000		0.0000

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	0.1553	2.1782	1.7203	6.8200e-003	0.1618	0.0352	0.1970	0.0443	0.0324	0.0767		665.7045	665.7045	4.8600e-003		665.8066
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.1553	2.1782	1.7203	6.8200e-003	0.1618	0.0352	0.1970	0.0443	0.0324	0.0767		665.7045	665.7045	4.8600e-003		665.8066

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.8495	0.0000	0.8495	0.1286	0.0000	0.1286			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.8495	0.0000	0.8495	0.1286	0.0000	0.1286	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.1553	2.1782	1.7203	6.8200e-003	0.1508	0.0352	0.1860	0.0416	0.0324	0.0740		665.7045	665.7045	4.8600e-003		665.8066
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.1553	2.1782	1.7203	6.8200e-003	0.1508	0.0352	0.1860	0.0416	0.0324	0.0740		665.7045	665.7045	4.8600e-003		665.8066

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732		316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732		316.0005	316.0005	0.0984		318.0663

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0585	4.8400e-003	0.0634	0.0160	4.4500e-003	0.0205		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0543	4.8400e-003	0.0591	0.0150	4.4500e-003	0.0194		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.7 Site Preparation Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0113	0.0000	0.0113	1.7100e-003	0.0000	1.7100e-003			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	0.0113	0.0000	0.0113	1.7100e-003	0.0000	1.7100e-003		0.0000	0.0000	0.0000		0.0000

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	0.1937	2.8853	2.0385	9.1200e-003	0.2178	0.0473	0.2650	0.0596	0.0435	0.1031		891.7513	891.7513	6.4100e-003		891.8860
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.1937	2.8853	2.0385	9.1200e-003	0.2178	0.0473	0.2650	0.0596	0.0435	0.1031		891.7513	891.7513	6.4100e-003		891.8860

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8300e-003	0.0000	4.8300e-003	7.3000e-004	0.0000	7.3000e-004			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	4.8300e-003	0.0000	4.8300e-003	7.3000e-004	0.0000	7.3000e-004	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.1937	2.8853	2.0385	9.1200e-003	0.2029	0.0473	0.2502	0.0560	0.0435	0.0995		891.7513	891.7513	6.4100e-003		891.8860
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.1937	2.8853	2.0385	9.1200e-003	0.2029	0.0473	0.2502	0.0560	0.0435	0.0995		891.7513	891.7513	6.4100e-003		891.8860

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.8 Mass Excavation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4002	4.8067	2.6034	8.7100e-003		0.1660	0.1660		0.1527	0.1527		875.8584	875.8584	0.2727		881.5844
Total	0.4002	4.8067	2.6034	8.7100e-003	0.0000	0.1660	0.1660	0.0000	0.1527	0.1527		875.8584	875.8584	0.2727		881.5844

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0585	4.8400e-003	0.0634	0.0160	4.4500e-003	0.0205		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4002	4.8067	2.6034	8.7100e-003		0.1660	0.1660		0.1527	0.1527	0.0000	875.8584	875.8584	0.2727		881.5844
Total	0.4002	4.8067	2.6034	8.7100e-003	0.0000	0.1660	0.1660	0.0000	0.1527	0.1527	0.0000	875.8584	875.8584	0.2727		881.5844

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0543	4.8400e-003	0.0591	0.0150	4.4500e-003	0.0194		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.9 Utility Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643		299.8780	299.8780	0.0934		301.8385
Total	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643		299.8780	299.8780	0.0934		301.8385

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0585	4.8400e-003	0.0634	0.0160	4.4500e-003	0.0205		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643	0.0000	299.8780	299.8780	0.0934		301.8385
Total	0.2551	2.5213	2.2404	2.9800e-003		0.1786	0.1786		0.1643	0.1643	0.0000	299.8780	299.8780	0.0934		301.8385

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0543	4.8400e-003	0.0591	0.0150	4.4500e-003	0.0194		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.10 Mass Excavation Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1818	0.0000	0.1818	0.0275	0.0000	0.0275			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	0.1818	0.0000	0.1818	0.0275	0.0000	0.0275		0.0000	0.0000	0.0000		0.0000

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	3.1127	46.3709	32.7618	0.1467	3.4997	0.7596	4.2593	0.9583	0.6988	1.6570		14,331.7177	14,331.7177	0.1031		14,333.8816
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	3.1127	46.3709	32.7618	0.1467	3.4997	0.7596	4.2593	0.9583	0.6988	1.6570		14,331.7177	14,331.7177	0.1031		14,333.8816

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0777	0.0000	0.0777	0.0118	0.0000	0.0118			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0777	0.0000	0.0777	0.0118	0.0000	0.0118	0.0000	0.0000	0.0000	0.0000		0.0000

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	3.1127	46.3709	32.7618	0.1467	3.2606	0.7596	4.0203	0.8996	0.6988	1.5984		14,331.7177	14,331.7177	0.1031		14,333.8816
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	3.1127	46.3709	32.7618	0.1467	3.2606	0.7596	4.0203	0.8996	0.6988	1.5984		14,331.7177	14,331.7177	0.1031		14,333.8816

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.11 Fine Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732		316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732		316.0005	316.0005	0.0984		318.0663

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0250	4.6100e-003	0.0296	7.1200e-003	4.2400e-003	0.0114		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1000e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0585	4.8400e-003	0.0634	0.0160	4.4500e-003	0.0205		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2689	2.6568	2.3608	3.1400e-003		0.1882	0.1882		0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663
Total	0.2689	2.6568	2.3608	3.1400e-003	0.0000	0.1882	0.1882	0.0000	0.1732	0.1732	0.0000	316.0005	316.0005	0.0984		318.0663

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0302	0.2890	0.3651	8.6000e-004	0.0234	4.6100e-003	0.0280	6.7200e-003	4.2400e-003	0.0110		83.8830	83.8830	5.9000e-004		83.8954
Worker	8.6500e-003	0.0111	0.1376	4.1000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		31.4960	31.4960	1.3900e-003		31.5251
Total	0.0389	0.3001	0.5027	1.2700e-003	0.0543	4.8400e-003	0.0591	0.0150	4.4500e-003	0.0194		115.3789	115.3789	1.9800e-003		115.4205

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.12 Fine Grading Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0565	0.0000	0.0565	8.5600e-003	0.0000	8.5600e-003			0.0000			0.0000
Off-Road	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	0.0000	0.0000	0.0000	0.0000	0.0565	0.0000	0.0565	8.5600e-003	0.0000	8.5600e-003		0.0000	0.0000	0.0000		0.0000

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	0.9684	14.4265	10.1926	0.0456	1.0888	0.2363	1.3251	0.2981	0.2174	0.5155		4,458.7566	4,458.7566	0.0321		4,459.4298
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.9684	14.4265	10.1926	0.0456	1.0888	0.2363	1.3251	0.2981	0.2174	0.5155		4,458.7566	4,458.7566	0.0321		4,459.4298

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0242	0.0000	0.0242	3.6600e-003	0.0000	3.6600e-003			0.0000			0.0000
Off-Road	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0242	0.0000	0.0242	3.6600e-003	0.0000	3.6600e-003	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.9684	14.4265	10.1926	0.0456	1.0144	0.2363	1.2508	0.2799	0.2174	0.4973		4,458.7566	4,458.7566	0.0321		4,459.4298
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	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	0.9684	14.4265	10.1926	0.0456	1.0144	0.2363	1.2508	0.2799	0.2174	0.4973		4,458.7566	4,458.7566	0.0321		4,459.4298

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.13 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357		2,477.3437	2,477.3437	0.4050		2,485.8492
Total	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357		2,477.3437	2,477.3437	0.4050		2,485.8492

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2266	2.1673	2.7384	6.4700e-003	0.1875	0.0346	0.2221	0.0534	0.0318	0.0852		629.1222	629.1222	4.4500e-003		629.2156
Worker	0.9313	1.1996	14.8125	0.0438	3.6104	0.0244	3.6348	0.9575	0.0226	0.9801		3,391.0666	3,391.0666	0.1493		3,394.2009
Total	1.1579	3.3668	17.5509	0.0503	3.7979	0.0590	3.8569	1.0109	0.0544	1.0653		4,020.1888	4,020.1888	0.1537		4,023.4165

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357	0.0000	2,477.3437	2,477.3437	0.4050		2,485.8492
Total	1.7645	17.9151	14.7097	0.0255		0.8743	0.8743		0.8357	0.8357	0.0000	2,477.3437	2,477.3437	0.4050		2,485.8492

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2266	2.1673	2.7384	6.4700e-003	0.1752	0.0346	0.2098	0.0504	0.0318	0.0822		629.1222	629.1222	4.4500e-003		629.2156
Worker	0.9313	1.1996	14.8125	0.0438	3.3279	0.0244	3.3523	0.8882	0.0226	0.9107		3,391.0666	3,391.0666	0.1493		3,394.2009
Total	1.1579	3.3668	17.5509	0.0503	3.5031	0.0590	3.5621	0.9385	0.0544	0.9929		4,020.1888	4,020.1888	0.1537		4,023.4165

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.13 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487		2,460.7789	2,460.7789	0.3987		2,469.1517
Total	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487		2,460.7789	2,460.7789	0.3987		2,469.1517

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2125	2.0101	2.5933	6.4800e-003	0.1875	0.0323	0.2198	0.0534	0.0297	0.0831		620.3762	620.3762	4.4800e-003		620.4703
Worker	0.8713	1.1118	13.8285	0.0440	3.6104	0.0246	3.6350	0.9575	0.0228	0.9803		3,285.5167	3,285.5167	0.1425		3,288.5086
Total	1.0839	3.1219	16.4218	0.0505	3.7979	0.0569	3.8548	1.0109	0.0525	1.0634		3,905.8929	3,905.8929	0.1470		3,908.9789

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487	0.0000	2,460.7789	2,460.7789	0.3987		2,469.1517
Total	1.6208	16.3313	14.2972	0.0255		0.7838	0.7838		0.7487	0.7487	0.0000	2,460.7789	2,460.7789	0.3987		2,469.1517

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2125	2.0101	2.5933	6.4800e-003	0.1752	0.0323	0.2075	0.0504	0.0297	0.0801		620.3762	620.3762	4.4800e-003		620.4703
Worker	0.8713	1.1118	13.8285	0.0440	3.3279	0.0246	3.3525	0.8882	0.0228	0.9109		3,285.5167	3,285.5167	0.1425		3,288.5086
Total	1.0839	3.1219	16.4218	0.0505	3.5031	0.0569	3.5600	0.9385	0.0525	0.9910		3,905.8929	3,905.8929	0.1470		3,908.9789

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.13 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630		2,438.2528	2,438.2528	0.3929		2,446.5046
Total	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630		2,438.2528	2,438.2528	0.3929		2,446.5046

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1965	1.7550	2.4539	6.4700e-003	0.1875	0.0295	0.2170	0.0534	0.0271	0.0805		606.3011	606.3011	4.3900e-003		606.3933
Worker	0.8244	1.0382	12.9855	0.0440	3.6104	0.0247	3.6351	0.9575	0.0229	0.9804		3,154.0313	3,154.0313	0.1357		3,156.8817
Total	1.0210	2.7932	15.4394	0.0505	3.7979	0.0542	3.8521	1.0109	0.0500	1.0609		3,760.3323	3,760.3323	0.1401		3,763.2750

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630	0.0000	2,438.2528	2,438.2528	0.3929		2,446.5046
Total	1.4847	14.6789	13.7372	0.0255		0.6942	0.6942		0.6630	0.6630	0.0000	2,438.2528	2,438.2528	0.3929		2,446.5046

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1965	1.7550	2.4539	6.4700e-003	0.1752	0.0295	0.2047	0.0504	0.0271	0.0775		606.3011	606.3011	4.3900e-003		606.3933
Worker	0.8244	1.0382	12.9855	0.0440	3.3279	0.0247	3.3526	0.8882	0.0229	0.9111		3,154.0313	3,154.0313	0.1357		3,156.8817
Total	1.0210	2.7932	15.4394	0.0505	3.5031	0.0542	3.5573	0.9385	0.0500	0.9886		3,760.3323	3,760.3323	0.1401		3,763.2750

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.14 Asphalt Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5096	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211		473.0440	473.0440	0.1530		476.2568
Paving	0.0393					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5489	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211		473.0440	473.0440	0.1530		476.2568

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0332	0.0418	0.5226	1.7700e-003	0.1453	9.9000e-004	0.1463	0.0385	9.2000e-004	0.0395		126.9424	126.9424	5.4600e-003		127.0572
Total	0.0332	0.0418	0.5226	1.7700e-003	0.1453	9.9000e-004	0.1463	0.0385	9.2000e-004	0.0395		126.9424	126.9424	5.4600e-003		127.0572

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5096	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211	0.0000	473.0440	473.0440	0.1530		476.2568
Paving	0.0393					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5489	3.5855	3.8232	4.8800e-003		0.2403	0.2403		0.2211	0.2211	0.0000	473.0440	473.0440	0.1530		476.2568

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0332	0.0418	0.5226	1.7700e-003	0.1339	9.9000e-004	0.1349	0.0358	9.2000e-004	0.0367		126.9424	126.9424	5.4600e-003		127.0572
Total	0.0332	0.0418	0.5226	1.7700e-003	0.1339	9.9000e-004	0.1349	0.0358	9.2000e-004	0.0367		126.9424	126.9424	5.4600e-003		127.0572

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.15 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.3351					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	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	2.3351	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1634	0.2057	2.5730	8.7200e-003	0.7154	4.8900e-003	0.7203	0.1897	4.5400e-003	0.1943		624.9474	624.9474	0.0269		625.5122
Total	0.1634	0.2057	2.5730	8.7200e-003	0.7154	4.8900e-003	0.7203	0.1897	4.5400e-003	0.1943		624.9474	624.9474	0.0269		625.5122

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.3351					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	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	2.3351	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1634	0.2057	2.5730	8.7200e-003	0.6594	4.8900e-003	0.6643	0.1760	4.5400e-003	0.1805		624.9474	624.9474	0.0269		625.5122
Total	0.1634	0.2057	2.5730	8.7200e-003	0.6594	4.8900e-003	0.6643	0.1760	4.5400e-003	0.1805		624.9474	624.9474	0.0269		625.5122

OCMA Project (Construction) With Mitigation
Orange County, Summer

3.16 Finishing/Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2117	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237		303.8692	303.8692	0.0983		305.9330
Paving	0.0175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2291	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237		303.8692	303.8692	0.0983		305.9330

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	7.6600e-003	9.6400e-003	0.1206	4.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1100e-003		29.2944	29.2944	1.2600e-003		29.3209
Total	7.6600e-003	9.6400e-003	0.1206	4.1000e-004	0.0335	2.3000e-004	0.0338	8.8900e-003	2.1000e-004	9.1100e-003		29.2944	29.2944	1.2600e-003		29.3209

OCMA Project (Construction) With Mitigation
Orange County, Summer

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2117	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237	0.0000	303.8692	303.8692	0.0983		305.9330
Paving	0.0175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2291	2.1269	2.3032	3.1400e-003		0.1345	0.1345		0.1237	0.1237	0.0000	303.8692	303.8692	0.0983		305.9330

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	7.6600e-003	9.6400e-003	0.1206	4.1000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		29.2944	29.2944	1.2600e-003		29.3209
Total	7.6600e-003	9.6400e-003	0.1206	4.1000e-004	0.0309	2.3000e-004	0.0311	8.2500e-003	2.1000e-004	8.4600e-003		29.2944	29.2944	1.2600e-003		29.3209

**OCMA Project (Construction) With Mitigation
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.35	Acre	0.35	115,828.00	0
Other Asphalt Surfaces	0.30	Acre	0.30	0.00	0
Other Non-Asphalt Surfaces	0.16	Acre	0.16	0.00	0
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.19	391,158.00	217

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0 Land Use Square Feet to exclude striping

Construction Phase - Based on construction schedule provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant. Share equipment with Building Demolition.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Off-road Equipment - Placeholder only.

Off-road Equipment - Based on construction information provided by the Applicant.

Trips and VMT - Based on information provided by the Applicant.

Demolition -

Grading -

Architectural Coating - Based on construction information provided by the Applicant.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 & 1186

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	57,914.00	6,950.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	173,742.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	264,032.00	13,202.00
tblArchitecturalCoating	ConstArea_Residential_Interior	792,095.00	633,676.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	0.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	200.00	478.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	7.00
tblConstructionPhase	NumDays	20.00	7.00
tblConstructionPhase	NumDays	4.00	23.00
tblConstructionPhase	NumDays	4.00	1.00
tblConstructionPhase	NumDays	4.00	43.00
tblConstructionPhase	NumDays	4.00	28.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	PhaseEndDate	3/27/2020	3/1/2020
tblConstructionPhase	PhaseEndDate	3/7/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	2/12/2018	2/1/2018
tblConstructionPhase	PhaseEndDate	2/12/2018	2/1/2018

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tblConstructionPhase	PhaseEndDate	6/4/2018	6/1/2018
tblConstructionPhase	PhaseEndDate	7/11/2018	5/1/2018
tblConstructionPhase	PhaseEndDate	4/29/2020	3/1/2020
tblConstructionPhase	PhaseEndDate	3/2/2018	3/1/2018
tblConstructionPhase	PhaseEndDate	8/1/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	3/2/2020	2/1/2020
tblConstructionPhase	PhaseStartDate	2/2/2018	1/1/2018
tblConstructionPhase	PhaseStartDate	2/2/2018	1/24/2018
tblConstructionPhase	PhaseStartDate	2/2/2018	1/24/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	6/2/2018	3/23/2018
tblConstructionPhase	PhaseStartDate	4/2/2020	2/1/2020
tblConstructionPhase	PhaseStartDate	3/2/2018	3/1/2018
tblConstructionPhase	PhaseStartDate	5/2/2018	3/2/2018
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialExported	0.00	45,000.00
tblGrading	MaterialExported	0.00	100.00
tblLandUse	LandUseSquareFeet	15,246.00	115,828.00
tblLandUse	LandUseSquareFeet	13,068.00	0.00
tblLandUse	LandUseSquareFeet	6,969.60	0.00
tblLandUse	LandUseSquareFeet	100,000.00	391,158.00
tblLandUse	LotAcreage	1.56	1.19
tblLandUse	Population	286.00	217.00
tblOffRoadEquipment	HorsePower	81.00	10.00
tblOffRoadEquipment	HorsePower	226.00	341.00
tblOffRoadEquipment	HorsePower	89.00	110.00
tblOffRoadEquipment	HorsePower	84.00	167.00

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tblOffRoadEquipment	HorsePower	80.00	48.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	HorsePower	97.00	189.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	97.00	98.00
tblOffRoadEquipment	HorsePower	78.00	80.00
tblOffRoadEquipment	HorsePower	162.00	121.00
tblOffRoadEquipment	HorsePower	64.00	73.00
tblOffRoadEquipment	HorsePower	97.00	93.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00

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tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripNumber	63.00	50.00
tblTripsAndVMT	HaulingTripNumber	163.00	165.00
tblTripsAndVMT	HaulingTripNumber	64.00	65.00
tblTripsAndVMT	HaulingTripNumber	13.00	10.00
tblTripsAndVMT	HaulingTripNumber	5,625.00	4,500.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	121.00	323.00
tblTripsAndVMT	WorkerTripNumber	5.00	13.00
tblTripsAndVMT	WorkerTripNumber	24.00	64.00

OCMA Project (Construction) With Mitigation
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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					
2018	0.3059	2.7481	3.2970	8.4300e-003	0.3664	0.1017	0.4680	0.0950	0.0959	0.1909	0.0000	687.6910	687.6910	0.0551	0.0000	688.8483
2019	0.3522	2.5684	3.9869	9.6900e-003	0.4868	0.1097	0.5966	0.1298	0.1046	0.2343	0.0000	738.3859	738.3859	0.0646	0.0000	739.7426
2020	0.1186	0.6701	1.0801	2.6800e-003	0.1323	0.0302	0.1625	0.0353	0.0286	0.0638	0.0000	199.4628	199.4628	0.0197	0.0000	199.8760
Total	0.7766	5.9867	8.3640	0.0208	0.9855	0.2416	1.2271	0.2600	0.2291	0.4891	0.0000	1,625.5397	1,625.5397	0.1394	0.0000	1,628.4669

OCMA Project (Construction) With Mitigation
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.3059	2.7481	3.2970	8.4300e-003	0.3251	0.1017	0.4267	0.0863	0.0959	0.1822	0.0000	687.6908	687.6908	0.0551	0.0000	688.8481
2019	0.3522	2.5684	3.9869	9.6900e-003	0.4492	0.1097	0.5589	0.1205	0.1046	0.2251	0.0000	738.3855	738.3855	0.0646	0.0000	739.7423
2020	0.1186	0.6701	1.0801	2.6800e-003	0.1221	0.0302	0.1523	0.0327	0.0286	0.0613	0.0000	199.4627	199.4627	0.0197	0.0000	199.8759
Total	0.7766	5.9867	8.3640	0.0208	0.8963	0.2416	1.1379	0.2395	0.2291	0.4686	0.0000	1,625.5390	1,625.5390	0.1394	0.0000	1,628.4662

	ROG	NOx	CO	SO2	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	9.05	0.00	7.27	7.87	0.00	4.18	0.00	0.00	0.00	0.00	0.00	0.00

OCMA Project (Construction) With Mitigation
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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Demolition	Demolition	1/1/2018	2/1/2018	5	24	
2	Asphalt Demolition	Demolition	1/1/2018	2/1/2018	5	24	
3	Building Demo Debris Haul	Demolition	1/24/2018	2/1/2018	5	7	
4	Asphalt Demo Debris Haul	Demolition	1/24/2018	2/1/2018	5	7	
5	Site Preparation	Site Preparation	2/2/2018	3/1/2018	5	20	
6	Site Preparation Soil Haul	Site Preparation	3/1/2018	3/1/2018	5	1	
7	Mass Excavation	Grading	3/2/2018	5/1/2018	5	43	
8	Utility Trenching	Trenching	3/2/2018	6/1/2018	5	66	
9	Mass Excavation Soil Haul	Grading	3/23/2018	5/1/2018	5	28	
10	Fine Grading	Grading	5/2/2018	6/1/2018	5	23	
11	Fine Grading Soil Haul	Grading	6/1/2018	6/1/2018	5	1	
12	Building Construction	Building Construction	6/2/2018	4/1/2020	5	478	
13	Asphalt Paving	Paving	2/1/2020	3/1/2020	5	20	
14	Architectural Coating	Architectural Coating	2/1/2020	3/1/2020	5	20	
15	Finishing/Landscaping	Paving	3/2/2020	5/1/2020	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 633,676; Residential Outdoor: 13,202; Non-Residential Indoor: 0; Non-Residential Outdoor: 6,950 (Architectural

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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Demolition	Concrete/Industrial Saws	1	8.00	10	0.73
Building Demolition	Excavators	1	8.00	121	0.38
Building Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Building Demolition	Skid Steer Loaders	1	8.00	73	0.37
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	93	0.37
Building Demolition	Tractors/Loaders/Backhoes	1	8.00	189	0.37
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Rubber Tired Dozers	0	8.00	255	0.40
Asphalt Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Demo Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Building Demo Debris Haul	Rubber Tired Dozers	0	8.00	255	0.40
Building Demo Debris Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Asphalt Demo Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demo Debris Haul	Rubber Tired Dozers	0	8.00	255	0.40
Asphalt Demo Debris Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Graders	0	8.00	174	0.41
Site Preparation	Scrapers	0	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Site Preparation Soil Haul	Graders	0	8.00	174	0.41
Site Preparation Soil Haul	Scrapers	0	8.00	361	0.48
Site Preparation Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Mass Excavation	Graders	0	8.00	174	0.41
Mass Excavation	Rubber Tired Dozers	0	8.00	255	0.40
Mass Excavation	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	93	0.37

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Mass Excavation Soil Haul	Graders	0	8.00	174	0.41
Mass Excavation Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
Mass Excavation Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Fine Grading	Graders	0	8.00	174	0.41
Fine Grading	Rubber Tired Dozers	0	8.00	255	0.40
Fine Grading	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Fine Grading Soil Haul	Graders	0	8.00	174	0.41
Fine Grading Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
Fine Grading Soil Haul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Air Compressors	1	4.00	80	0.48
Building Construction	Cranes	1	8.00	341	0.29
Building Construction	Forklifts	1	8.00	110	0.20
Building Construction	Generator Sets	1	8.00	167	0.74
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Asphalt Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Asphalt Paving	Pavers	0	8.00	125	0.42
Asphalt Paving	Paving Equipment	0	8.00	130	0.36
Asphalt Paving	Rollers	1	8.00	48	0.38
Asphalt Paving	Tractors/Loaders/Backhoes	1	8.00	98	0.37
Architectural Coating	Air Compressors	0	6.00	78	0.48
Finishing/Landscaping	Cement and Mortar Mixers	0	8.00	9	0.56
Finishing/Landscaping	Pavers	0	8.00	125	0.42
Finishing/Landscaping	Paving Equipment	0	8.00	130	0.36
Finishing/Landscaping	Rollers	0	8.00	80	0.38
Finishing/Landscaping	Tractors/Loaders/Backhoes	1	8.00	98	0.37

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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
Building Demolition	5	13.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	0	0.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Demo Debris Haul	0	0.00	0.00	165.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demo Debris Haul	0	0.00	0.00	65.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul	0	0.00	0.00	10.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Mass Excavation	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Mass Excavation Soil Haul	0	0.00	0.00	4,500.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	1	3.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading Soil Haul	0	0.00	0.00	50.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	323.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	2	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	64.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Finishing/Landscaping	1	3.00	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 Building Demolition - 2018
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0108	0.1263	0.0941	1.8000e-004		5.9700e-003	5.9700e-003		5.5000e-003	5.5000e-003	0.0000	16.7096	16.7096	5.2000e-003	0.0000	16.8188
Total	0.0108	0.1263	0.0941	1.8000e-004		5.9700e-003	5.9700e-003		5.5000e-003	5.5000e-003	0.0000	16.7096	16.7096	5.2000e-003	0.0000	16.8188

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	3.6200e-003	5.1200e-003	1.0000e-005	3.0000e-004	6.0000e-005	3.5000e-004	8.0000e-005	5.0000e-005	1.4000e-004	0.0000	0.9099	0.9099	1.0000e-005	0.0000	0.9101
Worker	4.4000e-004	6.5000e-004	6.8500e-003	2.0000e-005	1.7100e-003	1.0000e-005	1.7200e-003	4.5000e-004	1.0000e-005	4.7000e-004	0.0000	1.4283	1.4283	7.0000e-005	0.0000	1.4296
Total	8.3000e-004	4.2700e-003	0.0120	3.0000e-005	2.0100e-003	7.0000e-005	2.0700e-003	5.3000e-004	6.0000e-005	6.1000e-004	0.0000	2.3382	2.3382	8.0000e-005	0.0000	2.3397

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0108	0.1263	0.0941	1.8000e-004		5.9700e-003	5.9700e-003		5.5000e-003	5.5000e-003	0.0000	16.7096	16.7096	5.2000e-003	0.0000	16.8188
Total	0.0108	0.1263	0.0941	1.8000e-004		5.9700e-003	5.9700e-003		5.5000e-003	5.5000e-003	0.0000	16.7096	16.7096	5.2000e-003	0.0000	16.8188

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	3.6200e-003	5.1200e-003	1.0000e-005	2.8000e-004	6.0000e-005	3.3000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.9099	0.9099	1.0000e-005	0.0000	0.9101
Worker	4.4000e-004	6.5000e-004	6.8500e-003	2.0000e-005	1.5800e-003	1.0000e-005	1.5900e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4283	1.4283	7.0000e-005	0.0000	1.4296
Total	8.3000e-004	4.2700e-003	0.0120	3.0000e-005	1.8600e-003	7.0000e-005	1.9200e-003	5.0000e-004	6.0000e-005	5.6000e-004	0.0000	2.3382	2.3382	8.0000e-005	0.0000	2.3397

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.3 Asphalt Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	3.6200e-003	5.1200e-003	1.0000e-005	3.0000e-004	6.0000e-005	3.5000e-004	8.0000e-005	5.0000e-005	1.4000e-004	0.0000	0.9099	0.9099	1.0000e-005	0.0000	0.9101
Worker	0.0000	0.0000	0.0000	0.0000	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	3.9000e-004	3.6200e-003	5.1200e-003	1.0000e-005	3.0000e-004	6.0000e-005	3.5000e-004	8.0000e-005	5.0000e-005	1.4000e-004	0.0000	0.9099	0.9099	1.0000e-005	0.0000	0.9101

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	3.6200e-003	5.1200e-003	1.0000e-005	2.8000e-004	6.0000e-005	3.3000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.9099	0.9099	1.0000e-005	0.0000	0.9101
Worker	0.0000	0.0000	0.0000	0.0000	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	3.9000e-004	3.6200e-003	5.1200e-003	1.0000e-005	2.8000e-004	6.0000e-005	3.3000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.9099	0.9099	1.0000e-005	0.0000	0.9101

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.4 Building Demo Debris Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0177	0.0000	0.0177	2.6700e-003	0.0000	2.6700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0177	0.0000	0.0177	2.6700e-003	0.0000	2.6700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	1.4300e-003	0.0204	0.0172	6.0000e-005	1.4200e-003	3.1000e-004	1.7300e-003	3.9000e-004	2.9000e-004	6.8000e-004	0.0000	5.3602	5.3602	4.0000e-005	0.0000	5.3610
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	0.0000	0.0000	0.0000	0.0000	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	1.4300e-003	0.0204	0.0172	6.0000e-005	1.4200e-003	3.1000e-004	1.7300e-003	3.9000e-004	2.9000e-004	6.8000e-004	0.0000	5.3602	5.3602	4.0000e-005	0.0000	5.3610

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5500e-003	0.0000	7.5500e-003	1.1400e-003	0.0000	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	7.5500e-003	0.0000	7.5500e-003	1.1400e-003	0.0000	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	1.4300e-003	0.0204	0.0172	6.0000e-005	1.3200e-003	3.1000e-004	1.6300e-003	3.6000e-004	2.9000e-004	6.5000e-004	0.0000	5.3602	5.3602	4.0000e-005	0.0000	5.3610
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	0.0000	0.0000	0.0000	0.0000	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	1.4300e-003	0.0204	0.0172	6.0000e-005	1.3200e-003	3.1000e-004	1.6300e-003	3.6000e-004	2.9000e-004	6.5000e-004	0.0000	5.3602	5.3602	4.0000e-005	0.0000	5.3610

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.5 Asphalt Demo Debris Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.9500e-003	0.0000	6.9500e-003	1.0500e-003	0.0000	1.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	6.9500e-003	0.0000	6.9500e-003	1.0500e-003	0.0000	1.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	5.6000e-004	8.0200e-003	6.7600e-003	2.0000e-005	5.6000e-004	1.2000e-004	6.8000e-004	1.5000e-004	1.1000e-004	2.7000e-004	0.0000	2.1116	2.1116	2.0000e-005	0.0000	2.1119
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	0.0000	0.0000	0.0000	0.0000	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	5.6000e-004	8.0200e-003	6.7600e-003	2.0000e-005	5.6000e-004	1.2000e-004	6.8000e-004	1.5000e-004	1.1000e-004	2.7000e-004	0.0000	2.1116	2.1116	2.0000e-005	0.0000	2.1119

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.9700e-003	0.0000	2.9700e-003	4.5000e-004	0.0000	4.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	2.9700e-003	0.0000	2.9700e-003	4.5000e-004	0.0000	4.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	5.6000e-004	8.0200e-003	6.7600e-003	2.0000e-005	5.2000e-004	1.2000e-004	6.4000e-004	1.4000e-004	1.1000e-004	2.6000e-004	0.0000	2.1116	2.1116	2.0000e-005	0.0000	2.1119
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	0.0000	0.0000	0.0000	0.0000	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	5.6000e-004	8.0200e-003	6.7600e-003	2.0000e-005	5.2000e-004	1.2000e-004	6.4000e-004	1.4000e-004	1.1000e-004	2.6000e-004	0.0000	2.1116	2.1116	2.0000e-005	0.0000	2.1119

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.6 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0266	0.0236	3.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	2.8667	2.8667	8.9000e-004	0.0000	2.8855
Total	2.6900e-003	0.0266	0.0236	3.0000e-005	0.0000	1.8800e-003	1.8800e-003	0.0000	1.7300e-003	1.7300e-003	0.0000	2.8667	2.8667	8.9000e-004	0.0000	2.8855

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	3.0100e-003	4.2600e-003	1.0000e-005	2.5000e-004	5.0000e-005	2.9000e-004	7.0000e-005	4.0000e-005	1.1000e-004	0.0000	0.7583	0.7583	1.0000e-005	0.0000	0.7584
Worker	8.0000e-005	1.3000e-004	1.3200e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2747	0.2747	1.0000e-005	0.0000	0.2749
Total	4.0000e-004	3.1400e-003	5.5800e-003	1.0000e-005	5.8000e-004	5.0000e-005	6.2000e-004	1.6000e-004	4.0000e-005	2.0000e-004	0.0000	1.0329	1.0329	2.0000e-005	0.0000	1.0333

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0266	0.0236	3.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	2.8667	2.8667	8.9000e-004	0.0000	2.8855
Total	2.6900e-003	0.0266	0.0236	3.0000e-005	0.0000	1.8800e-003	1.8800e-003	0.0000	1.7300e-003	1.7300e-003	0.0000	2.8667	2.8667	8.9000e-004	0.0000	2.8855

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	3.0100e-003	4.2600e-003	1.0000e-005	2.3000e-004	5.0000e-005	2.8000e-004	7.0000e-005	4.0000e-005	1.1000e-004	0.0000	0.7583	0.7583	1.0000e-005	0.0000	0.7584
Worker	8.0000e-005	1.3000e-004	1.3200e-003	0.0000	3.0000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2747	0.2747	1.0000e-005	0.0000	0.2749
Total	4.0000e-004	3.1400e-003	5.5800e-003	1.0000e-005	5.3000e-004	5.0000e-005	5.9000e-004	1.5000e-004	4.0000e-005	1.9000e-004	0.0000	1.0329	1.0329	2.0000e-005	0.0000	1.0333

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.7 Site Preparation Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	1.0000e-004	1.5200e-003	1.1300e-003	0.0000	1.1000e-004	2.0000e-005	1.3000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.4042	0.4042	0.0000	0.0000	0.4042
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	0.0000	0.0000	0.0000	0.0000	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	1.0000e-004	1.5200e-003	1.1300e-003	0.0000	1.1000e-004	2.0000e-005	1.3000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.4042	0.4042	0.0000	0.0000	0.4042

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	1.0000e-004	1.5200e-003	1.1300e-003	0.0000	1.0000e-004	2.0000e-005	1.2000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.4042	0.4042	0.0000	0.0000	0.4042
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	0.0000	0.0000	0.0000	0.0000	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	1.0000e-004	1.5200e-003	1.1300e-003	0.0000	1.0000e-004	2.0000e-005	1.2000e-004	3.0000e-005	2.0000e-005	5.0000e-005	0.0000	0.4042	0.4042	0.0000	0.0000	0.4042

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.8 Mass Excavation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6000e-003	0.1033	0.0560	1.9000e-004		3.5700e-003	3.5700e-003		3.2800e-003	3.2800e-003	0.0000	17.0832	17.0832	5.3200e-003	0.0000	17.1948
Total	8.6000e-003	0.1033	0.0560	1.9000e-004	0.0000	3.5700e-003	3.5700e-003	0.0000	3.2800e-003	3.2800e-003	0.0000	17.0832	17.0832	5.3200e-003	0.0000	17.1948

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	6.4800e-003	9.1700e-003	2.0000e-005	5.3000e-004	1.0000e-004	6.3000e-004	1.5000e-004	9.0000e-005	2.4000e-004	0.0000	1.6303	1.6303	1.0000e-005	0.0000	1.6305
Worker	1.8000e-004	2.7000e-004	2.8300e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5905	0.5905	3.0000e-005	0.0000	0.5911
Total	8.7000e-004	6.7500e-003	0.0120	3.0000e-005	1.2400e-003	1.0000e-004	1.3400e-003	3.4000e-004	9.0000e-005	4.3000e-004	0.0000	2.2208	2.2208	4.0000e-005	0.0000	2.2216

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6000e-003	0.1033	0.0560	1.9000e-004		3.5700e-003	3.5700e-003		3.2800e-003	3.2800e-003	0.0000	17.0831	17.0831	5.3200e-003	0.0000	17.1948
Total	8.6000e-003	0.1033	0.0560	1.9000e-004	0.0000	3.5700e-003	3.5700e-003	0.0000	3.2800e-003	3.2800e-003	0.0000	17.0831	17.0831	5.3200e-003	0.0000	17.1948

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9000e-004	6.4800e-003	9.1700e-003	2.0000e-005	4.9000e-004	1.0000e-004	5.9000e-004	1.4000e-004	9.0000e-005	2.3000e-004	0.0000	1.6303	1.6303	1.0000e-005	0.0000	1.6305
Worker	1.8000e-004	2.7000e-004	2.8300e-003	1.0000e-005	6.5000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5905	0.5905	3.0000e-005	0.0000	0.5911
Total	8.7000e-004	6.7500e-003	0.0120	3.0000e-005	1.1400e-003	1.0000e-004	1.2500e-003	3.1000e-004	9.0000e-005	4.1000e-004	0.0000	2.2208	2.2208	4.0000e-005	0.0000	2.2216

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.9 Utility Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4200e-003	0.0832	0.0739	1.0000e-004		5.8900e-003	5.8900e-003		5.4200e-003	5.4200e-003	0.0000	8.9775	8.9775	2.7900e-003	0.0000	9.0362
Total	8.4200e-003	0.0832	0.0739	1.0000e-004		5.8900e-003	5.8900e-003		5.4200e-003	5.4200e-003	0.0000	8.9775	8.9775	2.7900e-003	0.0000	9.0362

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	1.0600e-003	9.9400e-003	0.0141	3.0000e-005	8.1000e-004	1.5000e-004	9.7000e-004	2.3000e-004	1.4000e-004	3.7000e-004	0.0000	2.5023	2.5023	2.0000e-005	0.0000	2.5027
Worker	2.8000e-004	4.2000e-004	4.3400e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9064	0.9064	4.0000e-005	0.0000	0.9073
Total	1.3400e-003	0.0104	0.0184	4.0000e-005	1.9000e-003	1.6000e-004	2.0600e-003	5.2000e-004	1.5000e-004	6.7000e-004	0.0000	3.4087	3.4087	6.0000e-005	0.0000	3.4099

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.4200e-003	0.0832	0.0739	1.0000e-004		5.8900e-003	5.8900e-003		5.4200e-003	5.4200e-003	0.0000	8.9775	8.9775	2.7900e-003	0.0000	9.0362
Total	8.4200e-003	0.0832	0.0739	1.0000e-004		5.8900e-003	5.8900e-003		5.4200e-003	5.4200e-003	0.0000	8.9775	8.9775	2.7900e-003	0.0000	9.0362

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	1.0600e-003	9.9400e-003	0.0141	3.0000e-005	7.6000e-004	1.5000e-004	9.1000e-004	2.2000e-004	1.4000e-004	3.6000e-004	0.0000	2.5023	2.5023	2.0000e-005	0.0000	2.5027
Worker	2.8000e-004	4.2000e-004	4.3400e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.9064	0.9064	4.0000e-005	0.0000	0.9073
Total	1.3400e-003	0.0104	0.0184	4.0000e-005	1.7600e-003	1.6000e-004	1.9200e-003	4.9000e-004	1.5000e-004	6.3000e-004	0.0000	3.4087	3.4087	6.0000e-005	0.0000	3.4099

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.10 Mass Excavation Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.5400e-003	0.0000	2.5400e-003	3.9000e-004	0.0000	3.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	2.5400e-003	0.0000	2.5400e-003	3.9000e-004	0.0000	3.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0450	0.6835	0.5098	2.0500e-003	0.0482	0.0106	0.0589	0.0132	9.7900e-003	0.0230	0.0000	181.8745	181.8745	1.3200e-003	0.0000	181.9021
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	0.0000	0.0000	0.0000	0.0000	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	0.0450	0.6835	0.5098	2.0500e-003	0.0482	0.0106	0.0589	0.0132	9.7900e-003	0.0230	0.0000	181.8745	181.8745	1.3200e-003	0.0000	181.9021

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0900e-003	0.0000	1.0900e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	1.0900e-003	0.0000	1.0900e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0450	0.6835	0.5098	2.0500e-003	0.0450	0.0106	0.0556	0.0124	9.7900e-003	0.0222	0.0000	181.8745	181.8745	1.3200e-003	0.0000	181.9021
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	0.0000	0.0000	0.0000	0.0000	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	0.0450	0.6835	0.5098	2.0500e-003	0.0450	0.0106	0.0556	0.0124	9.7900e-003	0.0222	0.0000	181.8745	181.8745	1.3200e-003	0.0000	181.9021

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.11 Fine Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0900e-003	0.0306	0.0272	4.0000e-005		2.1600e-003	2.1600e-003		1.9900e-003	1.9900e-003	0.0000	3.2967	3.2967	1.0300e-003	0.0000	3.3183
Total	3.0900e-003	0.0306	0.0272	4.0000e-005	0.0000	2.1600e-003	2.1600e-003	0.0000	1.9900e-003	1.9900e-003	0.0000	3.2967	3.2967	1.0300e-003	0.0000	3.3183

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	3.4600e-003	4.9000e-003	1.0000e-005	2.8000e-004	5.0000e-005	3.4000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.8720	0.8720	1.0000e-005	0.0000	0.8721
Worker	1.0000e-004	1.4000e-004	1.5100e-003	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3159	0.3159	1.0000e-005	0.0000	0.3162
Total	4.7000e-004	3.6000e-003	6.4100e-003	1.0000e-005	6.6000e-004	5.0000e-005	7.2000e-004	1.8000e-004	5.0000e-005	2.3000e-004	0.0000	1.1879	1.1879	2.0000e-005	0.0000	1.1883

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0900e-003	0.0306	0.0272	4.0000e-005		2.1600e-003	2.1600e-003		1.9900e-003	1.9900e-003	0.0000	3.2967	3.2967	1.0300e-003	0.0000	3.3183
Total	3.0900e-003	0.0306	0.0272	4.0000e-005	0.0000	2.1600e-003	2.1600e-003	0.0000	1.9900e-003	1.9900e-003	0.0000	3.2967	3.2967	1.0300e-003	0.0000	3.3183

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	3.4600e-003	4.9000e-003	1.0000e-005	2.6000e-004	5.0000e-005	3.2000e-004	8.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.8720	0.8720	1.0000e-005	0.0000	0.8721
Worker	1.0000e-004	1.4000e-004	1.5100e-003	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3159	0.3159	1.0000e-005	0.0000	0.3162
Total	4.7000e-004	3.6000e-003	6.4100e-003	1.0000e-005	6.1000e-004	5.0000e-005	6.7000e-004	1.7000e-004	5.0000e-005	2.3000e-004	0.0000	1.1879	1.1879	2.0000e-005	0.0000	1.1883

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.12 Fine Grading Soil Haul - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	5.0000e-004	7.5900e-003	5.6600e-003	2.0000e-005	5.4000e-004	1.2000e-004	6.5000e-004	1.5000e-004	1.1000e-004	2.6000e-004	0.0000	2.0208	2.0208	1.0000e-005	0.0000	2.0211
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	0.0000	0.0000	0.0000	0.0000	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	5.0000e-004	7.5900e-003	5.6600e-003	2.0000e-005	5.4000e-004	1.2000e-004	6.5000e-004	1.5000e-004	1.1000e-004	2.6000e-004	0.0000	2.0208	2.0208	1.0000e-005	0.0000	2.0211

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	5.0000e-004	7.5900e-003	5.6600e-003	2.0000e-005	5.0000e-004	1.2000e-004	6.2000e-004	1.4000e-004	1.1000e-004	2.5000e-004	0.0000	2.0208	2.0208	1.0000e-005	0.0000	2.0211
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	0.0000	0.0000	0.0000	0.0000	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	5.0000e-004	7.5900e-003	5.6600e-003	2.0000e-005	5.0000e-004	1.2000e-004	6.2000e-004	1.4000e-004	1.1000e-004	2.5000e-004	0.0000	2.0208	2.0208	1.0000e-005	0.0000	2.0211

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.13 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1332	1.3526	1.1106	1.9300e-003		0.0660	0.0660		0.0631	0.0631	0.0000	169.6793	169.6793	0.0277	0.0000	170.2619
Total	0.1332	1.3526	1.1106	1.9300e-003		0.0660	0.0660		0.0631	0.0631	0.0000	169.6793	169.6793	0.0277	0.0000	170.2619

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	0.0182	0.1706	0.2414	4.9000e-004	0.0140	2.6200e-003	0.0166	3.9800e-003	2.4100e-003	6.3900e-003	0.0000	42.9368	42.9368	3.1000e-004	0.0000	42.9433
Worker	0.0689	0.1023	1.0702	3.1800e-003	0.2677	1.8400e-003	0.2696	0.0711	1.7000e-003	0.0728	0.0000	223.2716	223.2716	0.0102	0.0000	223.4863
Total	0.0871	0.2729	1.3116	3.6700e-003	0.2817	4.4600e-003	0.2861	0.0751	4.1100e-003	0.0792	0.0000	266.2084	266.2084	0.0105	0.0000	266.4296

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1332	1.3526	1.1106	1.9300e-003		0.0660	0.0660		0.0631	0.0631	0.0000	169.6791	169.6791	0.0277	0.0000	170.2617
Total	0.1332	1.3526	1.1106	1.9300e-003		0.0660	0.0660		0.0631	0.0631	0.0000	169.6791	169.6791	0.0277	0.0000	170.2617

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	0.0182	0.1706	0.2414	4.9000e-004	0.0130	2.6200e-003	0.0157	3.7600e-003	2.4100e-003	6.1700e-003	0.0000	42.9368	42.9368	3.1000e-004	0.0000	42.9433
Worker	0.0689	0.1023	1.0702	3.1800e-003	0.2468	1.8400e-003	0.2487	0.0660	1.7000e-003	0.0677	0.0000	223.2716	223.2716	0.0102	0.0000	223.4863
Total	0.0871	0.2729	1.3116	3.6700e-003	0.2599	4.4600e-003	0.2643	0.0697	4.1100e-003	0.0738	0.0000	266.2084	266.2084	0.0105	0.0000	266.4296

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.13 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2115	2.1312	1.8658	3.3300e-003		0.1023	0.1023		0.0977	0.0977	0.0000	291.3257	291.3257	0.0472	0.0000	292.3170
Total	0.2115	2.1312	1.8658	3.3300e-003		0.1023	0.1023		0.0977	0.0977	0.0000	291.3257	291.3257	0.0472	0.0000	292.3170

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	0.0294	0.2734	0.3978	8.4000e-004	0.0241	4.2300e-003	0.0283	6.8800e-003	3.8900e-003	0.0108	0.0000	73.1838	73.1838	5.4000e-004	0.0000	73.1951
Worker	0.1113	0.1638	1.7234	5.5200e-003	0.4627	3.2100e-003	0.4660	0.1229	2.9700e-003	0.1259	0.0000	373.8764	373.8764	0.0169	0.0000	374.2306
Total	0.1407	0.4372	2.1211	6.3600e-003	0.4869	7.4400e-003	0.4943	0.1298	6.8600e-003	0.1366	0.0000	447.0602	447.0602	0.0174	0.0000	447.4257

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2115	2.1312	1.8658	3.3300e-003		0.1023	0.1023		0.0977	0.0977	0.0000	291.3254	291.3254	0.0472	0.0000	292.3166
Total	0.2115	2.1312	1.8658	3.3300e-003		0.1023	0.1023		0.0977	0.0977	0.0000	291.3254	291.3254	0.0472	0.0000	292.3166

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	0.0294	0.2734	0.3978	8.4000e-004	0.0225	4.2300e-003	0.0268	6.4900e-003	3.8900e-003	0.0104	0.0000	73.1838	73.1838	5.4000e-004	0.0000	73.1951
Worker	0.1113	0.1638	1.7234	5.5200e-003	0.4266	3.2100e-003	0.4298	0.1140	2.9700e-003	0.1170	0.0000	373.8764	373.8764	0.0169	0.0000	374.2306
Total	0.1407	0.4372	2.1211	6.3600e-003	0.4492	7.4400e-003	0.4566	0.1205	6.8600e-003	0.1274	0.0000	447.0602	447.0602	0.0174	0.0000	447.4257

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.13 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0490	0.4844	0.4533	8.4000e-004		0.0229	0.0229		0.0219	0.0219	0.0000	72.9942	72.9942	0.0118	0.0000	73.2413
Total	0.0490	0.4844	0.4533	8.4000e-004		0.0229	0.0229		0.0219	0.0219	0.0000	72.9942	72.9942	0.0118	0.0000	73.2413

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8500e-003	0.0603	0.0959	2.1000e-004	6.1000e-003	9.8000e-004	7.0700e-003	1.7400e-003	9.0000e-004	2.6400e-003	0.0000	18.0862	18.0862	1.3000e-004	0.0000	18.0890
Worker	0.0266	0.0387	0.4087	1.4000e-003	0.1170	8.1000e-004	0.1178	0.0311	7.6000e-004	0.0318	0.0000	90.7576	90.7576	4.0600e-003	0.0000	90.8429
Total	0.0335	0.0990	0.5046	1.6100e-003	0.1231	1.7900e-003	0.1249	0.0328	1.6600e-003	0.0345	0.0000	108.8437	108.8437	4.1900e-003	0.0000	108.9319

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0490	0.4844	0.4533	8.4000e-004		0.0229	0.0229		0.0219	0.0219	0.0000	72.9941	72.9941	0.0118	0.0000	73.2412
Total	0.0490	0.4844	0.4533	8.4000e-004		0.0229	0.0229		0.0219	0.0219	0.0000	72.9941	72.9941	0.0118	0.0000	73.2412

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.8500e-003	0.0603	0.0959	2.1000e-004	5.7000e-003	9.8000e-004	6.6700e-003	1.6400e-003	9.0000e-004	2.5400e-003	0.0000	18.0862	18.0862	1.3000e-004	0.0000	18.0890
Worker	0.0266	0.0387	0.4087	1.4000e-003	0.1079	8.1000e-004	0.1087	0.0288	7.6000e-004	0.0296	0.0000	90.7576	90.7576	4.0600e-003	0.0000	90.8429
Total	0.0335	0.0990	0.5046	1.6100e-003	0.1136	1.7900e-003	0.1154	0.0305	1.6600e-003	0.0321	0.0000	108.8437	108.8437	4.1900e-003	0.0000	108.9319

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.14 Asphalt Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.1000e-003	0.0359	0.0382	5.0000e-005		2.4000e-003	2.4000e-003		2.2100e-003	2.2100e-003	0.0000	4.2914	4.2914	1.3900e-003	0.0000	4.3205
Paving	3.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.4900e-003	0.0359	0.0382	5.0000e-005		2.4000e-003	2.4000e-003		2.2100e-003	2.2100e-003	0.0000	4.2914	4.2914	1.3900e-003	0.0000	4.3205

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	3.2000e-004	4.7000e-004	4.9900e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1069	1.1069	5.0000e-005	0.0000	1.1079
Total	3.2000e-004	4.7000e-004	4.9900e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1069	1.1069	5.0000e-005	0.0000	1.1079

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.1000e-003	0.0359	0.0382	5.0000e-005		2.4000e-003	2.4000e-003		2.2100e-003	2.2100e-003	0.0000	4.2914	4.2914	1.3900e-003	0.0000	4.3205
Paving	3.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.4900e-003	0.0359	0.0382	5.0000e-005		2.4000e-003	2.4000e-003		2.2100e-003	2.2100e-003	0.0000	4.2914	4.2914	1.3900e-003	0.0000	4.3205

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	3.2000e-004	4.7000e-004	4.9900e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1069	1.1069	5.0000e-005	0.0000	1.1079
Total	3.2000e-004	4.7000e-004	4.9900e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1069	1.1069	5.0000e-005	0.0000	1.1079

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.15 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0234	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	1.6000e-003	2.3200e-003	0.0245	8.0000e-005	7.0300e-003	5.0000e-005	7.0700e-003	1.8700e-003	5.0000e-005	1.9100e-003	0.0000	5.4494	5.4494	2.4000e-004	0.0000	5.4545
Total	1.6000e-003	2.3200e-003	0.0245	8.0000e-005	7.0300e-003	5.0000e-005	7.0700e-003	1.8700e-003	5.0000e-005	1.9100e-003	0.0000	5.4494	5.4494	2.4000e-004	0.0000	5.4545

OCMA Project (Construction) With Mitigation
Orange County, Annual

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0234	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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-003	2.3200e-003	0.0245	8.0000e-005	6.4800e-003	5.0000e-005	6.5300e-003	1.7300e-003	5.0000e-005	1.7800e-003	0.0000	5.4494	5.4494	2.4000e-004	0.0000	5.4545
Total	1.6000e-003	2.3200e-003	0.0245	8.0000e-005	6.4800e-003	5.0000e-005	6.5300e-003	1.7300e-003	5.0000e-005	1.7800e-003	0.0000	5.4494	5.4494	2.4000e-004	0.0000	5.4545

OCMA Project (Construction) With Mitigation
Orange County, Annual

3.16 Finishing/Landscaping - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7600e-003	0.0479	0.0518	7.0000e-005		3.0300e-003	3.0300e-003		2.7800e-003	2.7800e-003	0.0000	6.2025	6.2025	2.0100e-003	0.0000	6.2446
Paving	3.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.1500e-003	0.0479	0.0518	7.0000e-005		3.0300e-003	3.0300e-003		2.7800e-003	2.7800e-003	0.0000	6.2025	6.2025	2.0100e-003	0.0000	6.2446

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	1.7000e-004	2.4000e-004	2.5900e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.5747	0.5747	3.0000e-005	0.0000	0.5753
Total	1.7000e-004	2.4000e-004	2.5900e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.5747	0.5747	3.0000e-005	0.0000	0.5753

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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	4.7600e-003	0.0479	0.0518	7.0000e-005		3.0300e-003	3.0300e-003		2.7800e-003	2.7800e-003	0.0000	6.2025	6.2025	2.0100e-003	0.0000	6.2446
Paving	3.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.1500e-003	0.0479	0.0518	7.0000e-005		3.0300e-003	3.0300e-003		2.7800e-003	2.7800e-003	0.0000	6.2025	6.2025	2.0100e-003	0.0000	6.2446

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	1.7000e-004	2.4000e-004	2.5900e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5747	0.5747	3.0000e-005	0.0000	0.5753
Total	1.7000e-004	2.4000e-004	2.5900e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5747	0.5747	3.0000e-005	0.0000	0.5753

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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
Asphalt Demo Debris Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt 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
Asphalt 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
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
Building Demo Debris Haul	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 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
Fine 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
Fine Grading Soil Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/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
Mass Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Excavation Soil Haul	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
Site Preparation Soil Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	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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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	0	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	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	0	No Change	0.00
Pavers	Diesel	No Change	0	0	No Change	0.00
Paving Equipment	Diesel	No Change	0	0	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	0	No Change	0.00
Scrapers	Diesel	No Change	0	0	No Change	0.00
Skid Steer Loaders	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00
Welders	Diesel	No Change	0	0	No Change	0.00

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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	4.46600E-002	3.05310E-001	3.01350E-001	4.90000E-004	2.17700E-002	2.17700E-002	0.00000E+000	4.17250E+001	4.17250E+001	3.62000E-003	0.00000E+000	4.18011E+001
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	1.46590E-001	1.81049E+000	1.24855E+000	2.03000E-003	7.29200E-002	6.70800E-002	0.00000E+000	1.83076E+002	1.83076E+002	5.78000E-002	0.00000E+000	1.84290E+002
Excavators	2.66000E-003	2.84500E-002	3.01000E-002	5.00000E-005	1.38000E-003	1.27000E-003	0.00000E+000	4.33174E+000	4.33174E+000	1.35000E-003	0.00000E+000	4.36005E+000
Forklifts	4.83000E-002	4.30220E-001	3.53780E-001	4.50000E-004	3.35100E-002	3.08300E-002	0.00000E+000	4.06374E+001	4.06374E+001	1.28300E-002	0.00000E+000	4.09068E+001
Generator Sets	1.54180E-001	1.42221E+000	1.52601E+000	3.13000E-003	6.30000E-002	6.30000E-002	0.00000E+000	2.68561E+002	2.68561E+002	1.24500E-002	0.00000E+000	2.68823E+002
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	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	2.98000E-003	1.45900E-002	1.52000E-002	2.00000E-005	1.06000E-003	9.70000E-004	0.00000E+000	1.53473E+000	1.53473E+000	5.00000E-004	0.00000E+000	1.54515E+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
Scrapers	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
Skid Steer Loaders	1.23000E-003	1.63500E-002	1.87600E-002	3.00000E-005	8.00000E-004	7.40000E-004	0.00000E+000	2.54159E+000	2.54159E+000	7.90000E-004	0.00000E+000	2.55820E+000
Tractors/Loaders/Bulldozers	3.65800E-002	3.94250E-001	3.00780E-001	5.60000E-004	2.16800E-002	1.99400E-002	0.00000E+000	5.10194E+001	5.10194E+001	1.59900E-002	0.00000E+000	5.13553E+001
Welders	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

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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	4.46600E-002	3.05310E-001	3.01350E-001	4.90000E-004	2.17700E-002	2.17700E-002	0.00000E+000	4.17249E+001	4.17249E+001	3.62000E-003	0.00000E+000	4.18010E+001
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	1.46590E-001	1.81048E+000	1.24855E+000	2.03000E-003	7.29200E-002	6.70800E-002	0.00000E+000	1.83076E+002	1.83076E+002	5.78000E-002	0.00000E+000	1.84289E+002
Excavators	2.66000E-003	2.84500E-002	3.01000E-002	5.00000E-005	1.38000E-003	1.27000E-003	0.00000E+000	4.33173E+000	4.33173E+000	1.35000E-003	0.00000E+000	4.36005E+000
Forklifts	4.83000E-002	4.30220E-001	3.53780E-001	4.50000E-004	3.35100E-002	3.08300E-002	0.00000E+000	4.06374E+001	4.06374E+001	1.28300E-002	0.00000E+000	4.09068E+001
Generator Sets	1.54180E-001	1.42220E+000	1.52601E+000	3.13000E-003	6.30000E-002	6.30000E-002	0.00000E+000	2.68561E+002	2.68561E+002	1.24500E-002	0.00000E+000	2.68822E+002
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	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	2.98000E-003	1.45900E-002	1.52000E-002	2.00000E-005	1.06000E-003	9.70000E-004	0.00000E+000	1.53473E+000	1.53473E+000	5.00000E-004	0.00000E+000	1.54515E+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
Scrapers	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
Skid Steer Loaders	1.23000E-003	1.63500E-002	1.87600E-002	3.00000E-005	8.00000E-004	7.40000E-004	0.00000E+000	2.54158E+000	2.54158E+000	7.90000E-004	0.00000E+000	2.55820E+000
Tractors/Loaders/Bac khoss	3.65800E-002	3.94250E-001	3.00780E-001	5.60000E-004	2.16800E-002	1.99400E-002	0.00000E+000	5.10194E+001	5.10194E+001	1.59900E-002	0.00000E+000	5.13552E+001
Welders	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

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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	1.19832E-006	1.19832E-006	0.00000E+000	0.00000E+000	1.19614E-006
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	5.52337E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20169E-006	1.20169E-006	0.00000E+000	0.00000E+000	1.19377E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.30854E-006	2.30854E-006	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.84315E-007	9.84315E-007	0.00000E+000	0.00000E+000	1.22229E-006
Generator Sets	0.00000E+000	7.03131E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19154E-006	1.19154E-006	0.00000E+000	0.00000E+000	1.19038E-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	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
Scrapers	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
Skid Steer Loaders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.93454E-006	3.93454E-006	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Bac khoss	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17602E-006	1.17602E-006	0.00000E+000	0.00000E+000	1.16833E-006
Welders	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

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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			

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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	0.01	0.00	0.01	0.00	0.08	0.07
Asphalt Demo Debris Haul	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.57
Asphalt Demo Debris Haul	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Asphalt Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.00
Asphalt Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paving	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	0.89	0.24	0.82	0.22	0.08	0.07
Building Demo Debris Haul	Fugitive Dust	0.00	0.00	0.01	0.00	0.57	0.57
Building Demo Debris Haul	Roads	0.00	0.00	0.00	0.00	0.07	0.08
Building Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.06
Fine Grading	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading	Roads	0.00	0.00	0.00	0.00	0.08	0.06
Fine Grading Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.67	0.00
Fine Grading Soil Haul	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Finishing/Landscaping	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Finishing/Landscaping	Roads	0.00	0.00	0.00	0.00	0.08	0.10
Mass Excavation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00

OCMA Project (Construction) With Mitigation
Orange County, Mitigation Report

Mass Excavation	Roads	0.00	0.00	0.00	0.00	0.08	0.09
Mass Excavation Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.59
Mass Excavation Soil Haul	Roads	0.05	0.01	0.04	0.01	0.07	0.06
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.09	0.06
Site Preparation Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	1.00	0.00
Site Preparation Soil Haul	Roads	0.00	0.00	0.00	0.00	0.09	0.00
Utility Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Utility Trenching	Roads	0.00	0.00	0.00	0.00	0.07	0.06

OCMA Project (Operation - Existing 2016)
Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	23.00	1000sqft	0.53	23,000.00	0
Parking Lot	0.63	Acre	0.63	27,380.00	0
Other Non-Asphalt Surfaces	0.84	Acre	0.84	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8	Operational Year	2016		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0 Land Use Square Feet to exclude striping

Vehicle Trips - OCMA - Residential Project Trip Generation Analysis by DKS 2016.

Solid Waste - CalRecycle 2013. Public Sector and Institutions: Estimated Solid Waste Generation Rates.

Water And Wastewater - Fuscoe Engineering, October 2015.

Energy Use -

OCMA Project (Operation - Existing 2016)
Orange County, Winter

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	27,442.80	27,380.00
tblLandUse	LandUseSquareFeet	36,590.40	0.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	21.39	29.38
tblVehicleTrips	ST_TR	2.37	4.70
tblVehicleTrips	SU_TR	0.98	1.70
tblVehicleTrips	WD_TR	11.01	4.70
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	4,087,876.20	707,579.00
tblWater	OutdoorWaterUseRate	2,505,472.51	5,644,130.00
tblWater	SepticTankPercent	10.33	0.00

OCMA Project (Operation - Existing 2016)
Orange County, Winter

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	1.1490	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003
Energy	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003			80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
Mobile	0.3715	0.8866	4.0274	9.7900e-003	0.7356	0.0118	0.7474	0.1963	0.0109	0.2071			852.1027	852.1027	0.0351		852.8388
Total	1.5279	0.9535	4.0861	0.0102	0.7356	0.0169	0.7525	0.1963	0.0160	0.2122			932.3949	932.3949	0.0366	1.4700e-003	933.6200

OCMA Project (Operation - Existing 2016)
Orange County, Winter

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1490	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003
Energy	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
Mobile	0.3715	0.8866	4.0274	9.7900e-003	0.7356	0.0118	0.7474	0.1963	0.0109	0.2071		852.1027	852.1027	0.0351		852.8388
Total	1.5279	0.9535	4.0861	0.0102	0.7356	0.0169	0.7525	0.1963	0.0160	0.2122		932.3949	932.3949	0.0366	1.4700e-003	933.6200

	ROG	NOx	CO	SO2	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

OCMA Project (Operation - Existing 2016)
Orange County, Winter

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	0.3715	0.8866	4.0274	9.7900e-003	0.7356	0.0118	0.7474	0.1963	0.0109	0.2071		852.1027	852.1027	0.0351		852.8388
Unmitigated	0.3715	0.8866	4.0274	9.7900e-003	0.7356	0.0118	0.7474	0.1963	0.0109	0.2071		852.1027	852.1027	0.0351		852.8388

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	108.10	108.10	39.10	316,486	316,486
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	108.10	108.10	39.10	316,486	316,486

OCMA Project (Operation - Existing 2016)
Orange County, Winter

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Non-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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511008	0.057223	0.191597	0.152361	0.041328	0.005882	0.015289	0.014281	0.001428	0.002141	0.004713	0.000509	0.002239

5.0 Energy Detail

4.4 Fleet Mix

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	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003			80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
NaturalGas Unmitigated	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003			80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755

OCMA Project (Operation - Existing 2016)
Orange County, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	682.438	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
Other Non-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		7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-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
General Office Building	0.682438	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
Total		7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755

OCMA Project (Operation - Existing 2016)
Orange County, Winter

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	1.1490	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003
Unmitigated	1.1490	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003

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	0.1513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5000e-004	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003
Total	1.1490	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003

OCMA Project (Operation - Existing 2016)
Orange County, Winter

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	0.1513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5000e-004	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003
Total	1.1490	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003

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 Vegetation

OCMA Project (Operation - Existing 2016)
Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	23.00	1000sqft	0.53	23,000.00	0
Parking Lot	0.63	Acre	0.63	27,380.00	0
Other Non-Asphalt Surfaces	0.84	Acre	0.84	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2016
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0 Land Use Square Feet to exclude striping

Vehicle Trips - OCMA - Residential Project Trip Generation Analysis by DKS 2016.

Solid Waste - CalRecycle 2013. Public Sector and Institutions: Estimated Solid Waste Generation Rates.

Water And Wastewater - Fuscoe Engineering, October 2015.

Energy Use -

OCMA Project (Operation - Existing 2016)
Orange County, Summer

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	27,442.80	27,380.00
tblLandUse	LandUseSquareFeet	36,590.40	0.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	21.39	29.38
tblVehicleTrips	ST_TR	2.37	4.70
tblVehicleTrips	SU_TR	0.98	1.70
tblVehicleTrips	WD_TR	11.01	4.70
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	4,087,876.20	707,579.00
tblWater	OutdoorWaterUseRate	2,505,472.51	5,644,130.00
tblWater	SepticTankPercent	10.33	0.00

OCMA Project (Operation - Existing 2016)
Orange County, Summer

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	1.1490	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003
Energy	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003			80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
Mobile	0.3509	0.8391	4.0649	0.0103	0.7356	0.0118	0.7474	0.1963	0.0108	0.2071			891.2353	891.2353	0.0350		891.9711
Total	1.5073	0.9060	4.1236	0.0107	0.7356	0.0168	0.7525	0.1963	0.0159	0.2122			971.5276	971.5276	0.0366	1.4700e-003	972.7523

OCMA Project (Operation - Existing 2016)
Orange County, Summer

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1490	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003
Energy	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
Mobile	0.3509	0.8391	4.0649	0.0103	0.7356	0.0118	0.7474	0.1963	0.0108	0.2071		891.2353	891.2353	0.0350		891.9711
Total	1.5073	0.9060	4.1236	0.0107	0.7356	0.0168	0.7525	0.1963	0.0159	0.2122		971.5276	971.5276	0.0366	1.4700e-003	972.7523

	ROG	NOx	CO	SO2	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

OCMA Project (Operation - Existing 2016)
Orange County, Summer

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	0.3509	0.8391	4.0649	0.0103	0.7356	0.0118	0.7474	0.1963	0.0108	0.2071		891.2353	891.2353	0.0350		891.9711
Unmitigated	0.3509	0.8391	4.0649	0.0103	0.7356	0.0118	0.7474	0.1963	0.0108	0.2071		891.2353	891.2353	0.0350		891.9711

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	108.10	108.10	39.10	316,486	316,486
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	108.10	108.10	39.10	316,486	316,486

OCMA Project (Operation - Existing 2016)
Orange County, Summer

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Non-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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511008	0.057223	0.191597	0.152361	0.041328	0.005882	0.015289	0.014281	0.001428	0.002141	0.004713	0.000509	0.002239

5.0 Energy Detail

4.4 Fleet Mix

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	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003			80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
NaturalGas Unmitigated	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003			80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755

OCMA Project (Operation - Existing 2016)
Orange County, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-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
General Office Building	682.438	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
Total		7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-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
General Office Building	0.682438	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
Total		7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755

OCMA Project (Operation - Existing 2016)
Orange County, Summer

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	1.1490	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003
Unmitigated	1.1490	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003

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	0.1513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5000e-004	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003
Total	1.1490	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	2.0000e-005		5.6700e-003

OCMA Project (Operation - Existing 2016)
Orange County, Summer

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	0.1513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5000e-004	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	2.0000e-005	5.6700e-003
Total	1.1490	2.0000e-005	2.5600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	2.0000e-005	5.6700e-003

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 Vegetation

OCMA Project (Operation - Existing 2016)
Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	23.00	1000sqft	0.53	23,000.00	0
Parking Lot	0.63	Acre	0.63	27,380.00	0
Other Non-Asphalt Surfaces	0.84	Acre	0.84	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8	Operational Year	2016		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0 Land Use Square Feet to exclude striping

Vehicle Trips - OCMA - Residential Project Trip Generation Analysis by DKS 2016.

Solid Waste - CalRecycle 2013. Public Sector and Institutions: Estimated Solid Waste Generation Rates.

Water And Wastewater - Fuscoe Engineering, October 2015.

Energy Use -

OCMA Project (Operation - Existing 2016)
Orange County, Annual

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	27,442.80	27,380.00
tblLandUse	LandUseSquareFeet	36,590.40	0.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	21.39	29.38
tblVehicleTrips	ST_TR	2.37	4.70
tblVehicleTrips	SU_TR	0.98	1.70
tblVehicleTrips	WD_TR	11.01	4.70
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	4,087,876.20	707,579.00
tblWater	OutdoorWaterUseRate	2,505,472.51	5,644,130.00
tblWater	SepticTankPercent	10.33	0.00

OCMA Project (Operation - Existing 2016)
Orange County, Annual

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	0.2097	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004
Energy	1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	127.9979	127.9979	5.5300e-003	1.3300e-003	128.5277
Mobile	0.0580	0.1495	0.6707	1.6400e-003	0.1195	1.9400e-003	0.1215	0.0319	1.7900e-003	0.0337	0.0000	129.3179	129.3179	5.2500e-003	0.0000	129.4282
Waste						0.0000	0.0000		0.0000	0.0000	5.9639	0.0000	5.9639	0.3525	0.0000	13.3654
Water						0.0000	0.0000		0.0000	0.0000	0.2503	20.5810	20.8314	1.8100e-003	7.4000e-004	21.0988
Total	0.2690	0.1617	0.6812	1.7100e-003	0.1195	2.8700e-003	0.1224	0.0319	2.7200e-003	0.0347	6.2142	277.8975	284.1117	0.3650	2.0700e-003	292.4208

OCMA Project (Operation - Existing 2016)
Orange County, Annual

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2097	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004
Energy	1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	127.9979	127.9979	5.5300e-003	1.3300e-003	128.5277
Mobile	0.0580	0.1495	0.6707	1.6400e-003	0.1195	1.9400e-003	0.1215	0.0319	1.7900e-003	0.0337	0.0000	129.3179	129.3179	5.2500e-003	0.0000	129.4282
Waste						0.0000	0.0000		0.0000	0.0000	5.9639	0.0000	5.9639	0.3525	0.0000	13.3654
Water						0.0000	0.0000		0.0000	0.0000	0.2503	20.5810	20.8314	1.8000e-003	7.4000e-004	21.0984
Total	0.2690	0.1617	0.6812	1.7100e-003	0.1195	2.8700e-003	0.1224	0.0319	2.7200e-003	0.0347	6.2142	277.8975	284.1117	0.3650	2.0700e-003	292.4204

	ROG	NOx	CO	SO2	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

OCMA Project (Operation - Existing 2016)
Orange County, Annual

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	0.0580	0.1495	0.6707	1.6400e-003	0.1195	1.9400e-003	0.1215	0.0319	1.7900e-003	0.0337	0.0000	129.3179	129.3179	5.2500e-003	0.0000	129.4282
Unmitigated	0.0580	0.1495	0.6707	1.6400e-003	0.1195	1.9400e-003	0.1215	0.0319	1.7900e-003	0.0337	0.0000	129.3179	129.3179	5.2500e-003	0.0000	129.4282

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	108.10	108.10	39.10	316,486	316,486
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	108.10	108.10	39.10	316,486	316,486

OCMA Project (Operation - Existing 2016)

Orange County, Annual

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Non-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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511008	0.057223	0.191597	0.152361	0.041328	0.005882	0.015289	0.014281	0.001428	0.002141	0.004713	0.000509	0.002239

5.0 Energy Detail

4.4 Fleet Mix

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	114.7055	114.7055	5.2700e-003	1.0900e-003	115.1544
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	114.7055	114.7055	5.2700e-003	1.0900e-003	115.1544
NaturalGas Mitigated	1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	13.2924	13.2924	2.5000e-004	2.4000e-004	13.3733
NaturalGas Unmitigated	1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	13.2924	13.2924	2.5000e-004	2.4000e-004	13.3733

OCMA Project (Operation - Existing 2016)
Orange County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Non-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
General Office Building	249090	1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	13.2924	13.2924	2.5000e-004	2.4000e-004	13.3733
Total		1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	13.2924	13.2924	2.5000e-004	2.4000e-004	13.3733

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					
Other Non-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
General Office Building	249090	1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	13.2924	13.2924	2.5000e-004	2.4000e-004	13.3733
Total		1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	13.2924	13.2924	2.5000e-004	2.4000e-004	13.3733

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	376740	107.8105	4.9600e-003	1.0300e-003	108.2324
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	24094.4	6.8950	3.2000e-004	7.0000e-005	6.9220
Total		114.7055	5.2800e-003	1.1000e-003	115.1544

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	376740	107.8105	4.9600e-003	1.0300e-003	108.2324
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	24094.4	6.8950	3.2000e-004	7.0000e-005	6.9220
Total		114.7055	5.2800e-003	1.1000e-003	115.1544

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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	0.2097	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004
Unmitigated	0.2097	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004

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	0.0276					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1821					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004
Total	0.2097	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004

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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	tons/yr										MT/yr					
Architectural Coating	0.0276					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1821					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004
Total	0.2097	0.0000	3.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.8314	1.8000e-003	7.4000e-004	21.0984
Unmitigated	20.8314	1.8100e-003	7.4000e-004	21.0988

OCMA Project (Operation - Existing 2016)
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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.707579 / 5.64413	20.8314	1.8100e-003	7.4000e-004	21.0988
Other Non-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		20.8314	1.8100e-003	7.4000e-004	21.0988

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.707579 / 5.64413	20.8314	1.8000e-003	7.4000e-004	21.0984
Other Non-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		20.8314	1.8000e-003	7.4000e-004	21.0984

OCMA Project (Operation - Existing 2016)
Orange County, Annual

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.9639	0.3525	0.0000	13.3654
Unmitigated	5.9639	0.3525	0.0000	13.3654

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	29.38	5.9639	0.3525	0.0000	13.3654
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		5.9639	0.3525	0.0000	13.3654

OCMA Project (Operation - Existing 2016)
Orange County, Annual

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	29.38	5.9639	0.3525	0.0000	13.3654
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		5.9639	0.3525	0.0000	13.3654

9.0 Operational Offroad

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

OCMA Project (Operation - Existing 2016)
Orange 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
Electricity	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	0.00	0.00	0.00	0.55	0.00	0.00
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

OCMA Project (Operation - Existing 2016)

Orange County, Mitigation Report

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			
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			

OCMA Project (Operation - Existing 2016)

Orange County, Mitigation Report

	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		

OCMA Project (Operation - Existing 2016)

Orange County, Mitigation Report

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)	100.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

OCMA Project (Operation - Existing 2016)

Orange County, Mitigation Report

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

OCMA Project (Operation - Existing 2016)

Orange County, Mitigation Report

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

OCMA Project (Operation - Existing 2020)
Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	23.00	1000sqft	0.53	23,000.00	0
Other Non-Asphalt Surfaces	0.84	Acre	0.84	0.00	0
Parking Lot	0.63	Acre	0.63	27,380.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0 Land Use Square Feet to exclude striping

Vehicle Trips - OCMA - Residential Project Trip Generation Analysis by DKS 2016.

Energy Use -

Water And Wastewater - Fuscoe Engineering, October 2015.

Solid Waste - CalRecycle 2013. Public Sector and Institutions: Estimated Solid Waste Generation Rates.

OCMA Project (Operation - Existing 2020)
Orange County, Winter

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	36,590.40	0.00
tblLandUse	LandUseSquareFeet	27,442.80	27,380.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSolidWaste	SolidWasteGenerationRate	21.39	29.38
tblVehicleTrips	ST_TR	2.37	4.70
tblVehicleTrips	SU_TR	0.98	4.70
tblVehicleTrips	WD_TR	11.01	4.70
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	4,087,876.20	707,579.00
tblWater	OutdoorWaterUseRate	2,505,472.51	5,644,130.00
tblWater	SepticTankPercent	10.33	0.00

OCMA Project (Operation - Existing 2020)

Orange County, Winter

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	1.1490	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	1.0000e-005		5.6600e-003	
Energy	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003			80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755	
Mobile	0.2928	0.6561	3.0653	9.8700e-003	0.7359	0.0103	0.7462	0.1964	9.5200e-003	0.2059			753.0713	753.0713	0.0278		753.6555	
Total	1.4491	0.7230	3.1240	0.0103	0.7359	0.0154	0.7513	0.1964	0.0146	0.2110			833.3635	833.3635	0.0294		1.4700e-003	834.4367

OCMA Project (Operation - Existing 2020)
Orange County, Winter

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1490	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	1.0000e-005		5.6600e-003
Energy	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
Mobile	0.2928	0.6561	3.0653	9.8700e-003	0.7359	0.0103	0.7462	0.1964	9.5200e-003	0.2059		753.0713	753.0713	0.0278		753.6555
Total	1.4491	0.7230	3.1240	0.0103	0.7359	0.0154	0.7513	0.1964	0.0146	0.2110		833.3635	833.3635	0.0294	1.4700e-003	834.4367

	ROG	NOx	CO	SO2	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

OCMA Project (Operation - Existing 2020)
Orange County, Winter

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	0.2928	0.6561	3.0653	9.8700e-003	0.7359	0.0103	0.7462	0.1964	9.5200e-003	0.2059		753.0713	753.0713	0.0278		753.6555
Unmitigated	0.2928	0.6561	3.0653	9.8700e-003	0.7359	0.0103	0.7462	0.1964	9.5200e-003	0.2059		753.0713	753.0713	0.0278		753.6555

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	108.10	108.10	108.10	348,240	348,240
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	108.10	108.10	108.10	348,240	348,240

OCMA Project (Operation - Existing 2020)
Orange County, Winter

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Non-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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.508857	0.056420	0.193204	0.150829	0.041936	0.005921	0.015893	0.015805	0.001454	0.002159	0.004747	0.000498	0.002277

5.0 Energy Detail

4.4 Fleet Mix

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	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003			80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
NaturalGas Unmitigated	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003			80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755

OCMA Project (Operation - Existing 2020)
Orange County, Winter

5.2 Energy by Land Use - Natural Gas
Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	682.438	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
Other Non-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		7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-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
General Office Building	0.682438	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
Total		7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755

OCMA Project (Operation - Existing 2020)
Orange County, Winter

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	1.1490	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	1.0000e-005		5.6600e-003
Unmitigated	1.1490	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	1.0000e-005		5.6600e-003

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	0.1513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	1.0000e-005		5.6600e-003
Total	1.1490	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.3600e-003	5.3600e-003	1.0000e-005		5.6600e-003

OCMA Project (Operation - Existing 2020)
Orange County, Winter

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	0.1513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	1.0000e-005	5.6600e-003
Total	1.1490	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	1.0000e-005	5.6600e-003

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 Vegetation

OCMA Project (Operation - Existing 2020)
Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	23.00	1000sqft	0.53	23,000.00	0
Other Non-Asphalt Surfaces	0.84	Acre	0.84	0.00	0
Parking Lot	0.63	Acre	0.63	27,380.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8	Operational Year	2020		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - 0 Land Use Square Feet to exclude striping
 Vehicle Trips - OCMA - Residential Project Trip Generation Analysis by DKS 2016.
 Energy Use -
 Water And Wastewater - Fuscoe Engineering, October 2015.
 Solid Waste - CalRecycle 2013. Public Sector and Institutions: Estimated Solid Waste Generation Rates.

OCMA Project (Operation - Existing 2020)
Orange County, Summer

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	36,590.40	0.00
tblLandUse	LandUseSquareFeet	27,442.80	27,380.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSolidWaste	SolidWasteGenerationRate	21.39	29.38
tblVehicleTrips	ST_TR	2.37	4.70
tblVehicleTrips	SU_TR	0.98	4.70
tblVehicleTrips	WD_TR	11.01	4.70
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	4,087,876.20	707,579.00
tblWater	OutdoorWaterUseRate	2,505,472.51	5,644,130.00
tblWater	SepticTankPercent	10.33	0.00

OCMA Project (Operation - Existing 2020)
Orange County, Summer

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	1.1490	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	1.0000e-005		5.6600e-003	
Energy	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003			80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755	
Mobile	0.2781	0.6215	3.0919	0.0103	0.7359	0.0103	0.7462	0.1964	9.4900e-003	0.2059			787.0330	787.0330	0.0278		787.6169	
Total	1.4345	0.6885	3.1506	0.0107	0.7359	0.0154	0.7513	0.1964	0.0146	0.2110			867.3252	867.3252	0.0294		1.4700e-003	868.3980

OCMA Project (Operation - Existing 2020)
Orange County, Summer

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	1.1490	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	1.0000e-005		5.6600e-003
Energy	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003			80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
Mobile	0.2781	0.6215	3.0919	0.0103	0.7359	0.0103	0.7462	0.1964	9.4900e-003	0.2059			787.0330	787.0330	0.0278		787.6169
Total	1.4345	0.6885	3.1506	0.0107	0.7359	0.0154	0.7513	0.1964	0.0146	0.2110			867.3252	867.3252	0.0294	1.4700e-003	868.3980

	ROG	NOx	CO	SO2	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

OCMA Project (Operation - Existing 2020)
Orange County, Summer

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	0.2781	0.6215	3.0919	0.0103	0.7359	0.0103	0.7462	0.1964	9.4900e-003	0.2059		787.0330	787.0330	0.0278		787.6169
Unmitigated	0.2781	0.6215	3.0919	0.0103	0.7359	0.0103	0.7462	0.1964	9.4900e-003	0.2059		787.0330	787.0330	0.0278		787.6169

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	108.10	108.10	108.10	348,240	348,240
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	108.10	108.10	108.10	348,240	348,240

OCMA Project (Operation - Existing 2020)
Orange County, Summer

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Non-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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.508857	0.056420	0.193204	0.150829	0.041936	0.005921	0.015893	0.015805	0.001454	0.002159	0.004747	0.000498	0.002277

5.0 Energy Detail

4.4 Fleet Mix

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	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003			80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
NaturalGas Unmitigated	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003			80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755

OCMA Project (Operation - Existing 2020)
Orange County, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Other Non-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
General Office Building	682.438	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755	
Total		7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755	

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-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
General Office Building	0.682438	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755
Total		7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003		80.2869	80.2869	1.5400e-003	1.4700e-003	80.7755

OCMA Project (Operation - Existing 2020)
Orange County, Summer

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	1.1490	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	1.0000e-005		5.6600e-003
Unmitigated	1.1490	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	1.0000e-005		5.6600e-003

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	0.1513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	0.9975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	2.4000e-004	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	1.0000e-005		5.6600e-003
Total	1.1490	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	1.0000e-005		5.6600e-003

OCMA Project (Operation - Existing 2020)
Orange County, Summer

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	0.1513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9975					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	1.0000e-005	5.6600e-003
Total	1.1490	2.0000e-005	2.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.3600e-003	5.3600e-003	1.0000e-005	5.6600e-003

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 Vegetation

OCMA Project (Operation - Existing 2020)
Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	23.00	1000sqft	0.53	23,000.00	0
Other Non-Asphalt Surfaces	0.84	Acre	0.84	0.00	0
Parking Lot	0.63	Acre	0.63	27,380.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8	Operational Year	2020		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - 0 Land Use Square Feet to exclude striping
 Vehicle Trips - OCMA - Residential Project Trip Generation Analysis by DKS 2016.
 Energy Use -
 Water And Wastewater - Fuscoe Engineering, October 2015.
 Solid Waste - CalRecycle 2013. Public Sector and Institutions: Estimated Solid Waste Generation Rates.

OCMA Project (Operation - Existing 2020)
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Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	36,590.40	0.00
tblLandUse	LandUseSquareFeet	27,442.80	27,380.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSolidWaste	SolidWasteGenerationRate	21.39	29.38
tblVehicleTrips	ST_TR	2.37	4.70
tblVehicleTrips	SU_TR	0.98	4.70
tblVehicleTrips	WD_TR	11.01	4.70
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	4,087,876.20	707,579.00
tblWater	OutdoorWaterUseRate	2,505,472.51	5,644,130.00
tblWater	SepticTankPercent	10.33	0.00

OCMA Project (Operation - Existing 2020)
Orange County, Annual

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	0.2097	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004
Energy	1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	127.9979	127.9979	5.5300e-003	1.3300e-003	128.5277
Mobile	0.0504	0.1217	0.5613	1.8200e-003	0.1316	1.8700e-003	0.1335	0.0352	1.7300e-003	0.0369	0.0000	125.7318	125.7318	4.5900e-003	0.0000	125.8281
Waste						0.0000	0.0000		0.0000	0.0000	5.9639	0.0000	5.9639	0.3525	0.0000	13.3654
Water						0.0000	0.0000		0.0000	0.0000	0.2503	20.5810	20.8314	1.8100e-003	7.4000e-004	21.0988
Total	0.2614	0.1339	0.5719	1.8900e-003	0.1316	2.8000e-003	0.1344	0.0352	2.6600e-003	0.0378	6.2142	274.3114	280.5256	0.3644	2.0700e-003	288.8207

OCMA Project (Operation - Existing 2020)
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Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2097	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004
Energy	1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	127.9979	127.9979	5.5300e-003	1.3300e-003	128.5277
Mobile	0.0504	0.1217	0.5613	1.8200e-003	0.1316	1.8700e-003	0.1335	0.0352	1.7300e-003	0.0369	0.0000	125.7318	125.7318	4.5900e-003	0.0000	125.8281
Waste						0.0000	0.0000		0.0000	0.0000	5.9639	0.0000	5.9639	0.3525	0.0000	13.3654
Water						0.0000	0.0000		0.0000	0.0000	0.2503	20.5810	20.8314	1.8000e-003	7.4000e-004	21.0984
Total	0.2614	0.1339	0.5719	1.8900e-003	0.1316	2.8000e-003	0.1344	0.0352	2.6600e-003	0.0378	6.2142	274.3114	280.5256	0.3644	2.0700e-003	288.8203

	ROG	NOx	CO	SO2	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

OCMA Project (Operation - Existing 2020)
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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	0.0504	0.1217	0.5613	1.8200e-003	0.1316	1.8700e-003	0.1335	0.0352	1.7300e-003	0.0369	0.0000	125.7318	125.7318	4.5900e-003	0.0000	125.8281
Unmitigated	0.0504	0.1217	0.5613	1.8200e-003	0.1316	1.8700e-003	0.1335	0.0352	1.7300e-003	0.0369	0.0000	125.7318	125.7318	4.5900e-003	0.0000	125.8281

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	108.10	108.10	108.10	348,240	348,240
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	108.10	108.10	108.10	348,240	348,240

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4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Non-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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.508857	0.056420	0.193204	0.150829	0.041936	0.005921	0.015893	0.015805	0.001454	0.002159	0.004747	0.000498	0.002277

5.0 Energy Detail

4.4 Fleet Mix

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	114.7055	114.7055	5.2700e-003	1.0900e-003	115.1544
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	114.7055	114.7055	5.2700e-003	1.0900e-003	115.1544
NaturalGas Mitigated	1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	13.2924	13.2924	2.5000e-004	2.4000e-004	13.3733
NaturalGas Unmitigated	1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	13.2924	13.2924	2.5000e-004	2.4000e-004	13.3733

OCMA Project (Operation - Existing 2020)
Orange County, Annual

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Non-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
General Office Building	249090	1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	13.2924	13.2924	2.5000e-004	2.4000e-004	13.3733
Total		1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	13.2924	13.2924	2.5000e-004	2.4000e-004	13.3733

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					
Other Non-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
General Office Building	249090	1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	13.2924	13.2924	2.5000e-004	2.4000e-004	13.3733
Total		1.3400e-003	0.0122	0.0103	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	13.2924	13.2924	2.5000e-004	2.4000e-004	13.3733

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	376740	107.8105	4.9600e-003	1.0300e-003	108.2324
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	24094.4	6.8950	3.2000e-004	7.0000e-005	6.9220
Total		114.7055	5.2800e-003	1.1000e-003	115.1544

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	376740	107.8105	4.9600e-003	1.0300e-003	108.2324
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	24094.4	6.8950	3.2000e-004	7.0000e-005	6.9220
Total		114.7055	5.2800e-003	1.1000e-003	115.1544

OCMA Project (Operation - Existing 2020)
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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	0.2097	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004
Unmitigated	0.2097	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004

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	0.0276					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1821					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004
Total	0.2097	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004

OCMA Project (Operation - Existing 2020)
Orange County, Annual

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	0.0276					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1821					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004
Total	0.2097	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.1000e-004	6.1000e-004	0.0000	0.0000	6.4000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.8314	1.8000e-003	7.4000e-004	21.0984
Unmitigated	20.8314	1.8100e-003	7.4000e-004	21.0988

OCMA Project (Operation - Existing 2020)
Orange County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.707579 / 5.64413	20.8314	1.8100e-003	7.4000e-004	21.0988
Other Non-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		20.8314	1.8100e-003	7.4000e-004	21.0988

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.707579 / 5.64413	20.8314	1.8000e-003	7.4000e-004	21.0984
Other Non-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		20.8314	1.8000e-003	7.4000e-004	21.0984

OCMA Project (Operation - Existing 2020)
Orange County, Annual

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.9639	0.3525	0.0000	13.3654
Unmitigated	5.9639	0.3525	0.0000	13.3654

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	29.38	5.9639	0.3525	0.0000	13.3654
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		5.9639	0.3525	0.0000	13.3654

OCMA Project (Operation - Existing 2020)
Orange County, Annual

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	29.38	5.9639	0.3525	0.0000	13.3654
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		5.9639	0.3525	0.0000	13.3654

9.0 Operational Offroad

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

OCMA Project (Operation - Existing 2020)
Orange 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
Electricity	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	0.00	0.00	0.00	0.55	0.00	0.00
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

OCMA Project (Operation - Existing 2020)

Orange County, Mitigation Report

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			
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			

OCMA Project (Operation - Existing 2020)

Orange County, Mitigation Report

	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		

OCMA Project (Operation - Existing 2020)

Orange County, Mitigation Report

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)	100.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

OCMA Project (Operation - Existing 2020)

Orange County, Mitigation Report

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

OCMA Project (Operation - Existing 2020)

Orange County, Mitigation Report

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

OCMA Project (Operation - Project)
Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.35	Acre	0.35	115,828.00	0
Other Non-Asphalt Surfaces	0.16	Acre	0.16	0.00	0
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.19	391,158.00	217
Other Asphalt Surfaces	0.30	Acre	0.30	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

OCMA Project (Operation - Project)
Orange County, Winter

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0 Land Use Square Feet to exclude striping

Vehicle Trips - OCMA - Residential Project Trip Generation Analysis by DKS 2016.

Vehicle Emission Factors - Assumes no heavy-heavy duty trucks, motor homes, buses.

Vehicle Emission Factors - Assumes no heavy-heavy duty trucks, motor homes, buses.

Vehicle Emission Factors - Assumes no heavy-heavy duty trucks, motor homes, buses.

Woodstoves - 100% gas fireplace.

Area Coating - Based on construction information provided by the Applicant.

Water And Wastewater - Fuscoe Engineering, October 2015.

Solid Waste - CalRecycle 2013. Residential Developments: Estimated Solid Waste Generation Rates.

Energy Mitigation -

Water Mitigation -

OCMA Project (Operation - Project)
Orange County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	6
tblAreaCoating	Area_Nonresidential_Interior	173742	0
tblAreaCoating	Area_Residential_Exterior	264032	6601
tblAreaCoating	Area_Residential_Interior	792095	633676
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	6	250
tblFireplaces	NumberGas	85.00	101.00
tblFireplaces	NumberNoFireplace	10.00	0.00
tblFireplaces	NumberWood	5.00	0.00
tblLandUse	LandUseSquareFeet	15,246.00	115,828.00
tblLandUse	LandUseSquareFeet	6,969.60	0.00
tblLandUse	LandUseSquareFeet	100,000.00	391,158.00
tblLandUse	LandUseSquareFeet	13,068.00	0.00
tblLandUse	LotAcreage	1.56	1.19
tblLandUse	Population	286.00	217.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSolidWaste	SolidWasteGenerationRate	46.00	223.20
tblVehicleEF	HHD	0.02	0.00
tblVehicleEF	HHD	0.02	0.00
tblVehicleEF	HHD	0.02	0.00
tblVehicleEF	LDA	0.51	0.65
tblVehicleEF	LDA	0.51	0.65
tblVehicleEF	LDA	0.51	0.65
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT2	0.19	0.25

OCMA Project (Operation - Project)
Orange County, Winter

tblVehicleEF	LDT2	0.19	0.25
tblVehicleEF	LDT2	0.19	0.25
tblVehicleEF	LHD1	0.04	6.5780e-003
tblVehicleEF	LHD1	0.04	6.5780e-003
tblVehicleEF	LHD1	0.04	6.5780e-003
tblVehicleEF	LHD2	5.9210e-003	9.2900e-004
tblVehicleEF	LHD2	5.9210e-003	9.2900e-004
tblVehicleEF	LHD2	5.9210e-003	9.2900e-004
tblVehicleEF	MCY	4.7470e-003	6.0330e-003
tblVehicleEF	MCY	4.7470e-003	6.0330e-003
tblVehicleEF	MCY	4.7470e-003	6.0330e-003
tblVehicleEF	MDV	0.15	0.02
tblVehicleEF	MDV	0.15	0.02
tblVehicleEF	MDV	0.15	0.02
tblVehicleEF	MH	2.2770e-003	0.00
tblVehicleEF	MH	2.2770e-003	0.00
tblVehicleEF	MH	2.2770e-003	0.00
tblVehicleEF	MHD	0.02	2.4930e-003
tblVehicleEF	MHD	0.02	2.4930e-003
tblVehicleEF	MHD	0.02	2.4930e-003
tblVehicleEF	OBUS	1.4540e-003	0.00
tblVehicleEF	OBUS	1.4540e-003	0.00
tblVehicleEF	OBUS	1.4540e-003	0.00
tblVehicleEF	SBUS	4.9800e-004	0.00
tblVehicleEF	SBUS	4.9800e-004	0.00
tblVehicleEF	SBUS	4.9800e-004	0.00
tblVehicleEF	UBUS	2.1590e-003	0.00

OCMA Project (Operation - Project)
Orange County, Winter

tblVehicleEF	UBUS	2.1590e-003	0.00
tblVehicleEF	UBUS	2.1590e-003	0.00
tblVehicleTrips	ST_TR	7.16	4.31
tblVehicleTrips	SU_TR	6.07	3.43
tblVehicleTrips	WD_TR	6.59	4.18
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	6,515,402.56	39,025,800.00
tblWater	OutdoorWaterUseRate	4,107,536.40	182,516,640.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	5.00	0.00
tblWoodstoves	NumberNoncatalytic	5.00	0.00

OCMA Project (Operation - Project)
Orange County, Winter

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	10.9016	0.0958	8.2883	4.4000e-004		0.1810	0.1810		0.1796	0.1796	0.0000	2,153.6789	2,153.6789	0.0555	0.0392	2,166.9997
Energy	0.0468	0.3996	0.1700	2.5500e-003		0.0323	0.0323		0.0323	0.0323		510.0780	510.0780	9.7800e-003	9.3500e-003	513.1823
Mobile	0.9823	1.0380	10.4442	0.0353	3.0765	0.0212	3.0977	0.8159	0.0196	0.8356		2,530.8686	2,530.8686	0.1040		2,533.0518
Total	11.9306	1.5333	18.9026	0.0383	3.0765	0.2344	3.3109	0.8159	0.2315	1.0474	0.0000	5,194.6255	5,194.6255	0.1692	0.0486	5,213.2337

OCMA Project (Operation - Project)
Orange County, Winter

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	10.9016	0.0958	8.2883	4.4000e-004		0.1810	0.1810		0.1796	0.1796	0.0000	2,153.6789	2,153.6789	0.0555	0.0392	2,166.9997
Energy	0.0340	0.2907	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.0660	371.0660	7.1100e-003	6.8000e-003	373.3243
Mobile	0.9823	1.0380	10.4442	0.0353	3.0765	0.0212	3.0977	0.8159	0.0196	0.8356		2,530.8686	2,530.8686	0.1040		2,533.0518
Total	11.9179	1.4245	18.8563	0.0376	3.0765	0.2256	3.3021	0.8159	0.2227	1.0386	0.0000	5,055.6135	5,055.6135	0.1666	0.0460	5,073.3757

	ROG	NOx	CO	SO2	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	0.11	7.10	0.25	1.80	0.00	3.75	0.27	0.00	3.80	0.84	0.00	2.68	2.68	1.58	5.25	2.68

OCMA Project (Operation - Project)
Orange County, Winter

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	0.9823	1.0380	10.4442	0.0353	3.0765	0.0212	3.0977	0.8159	0.0196	0.8356		2,530.8686	2,530.8686	0.1040		2,533.0518
Unmitigated	0.9823	1.0380	10.4442	0.0353	3.0765	0.0212	3.0977	0.8159	0.0196	0.8356		2,530.8686	2,530.8686	0.1040		2,533.0518

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	418.00	431.00	343.00	1,398,103	1,398,103
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	418.00	431.00	343.00	1,398,103	1,398,103

OCMA Project (Operation - Project)
Orange County, Winter

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.646715	0.071705	0.245546	0.020000	0.006578	0.000929	0.002493	0.000000	0.000000	0.000000	0.006033	0.000000	0.000000

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0340	0.2907	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.0660	371.0660	7.1100e-003	6.8000e-003	373.3243
NaturalGas Unmitigated	0.0468	0.3996	0.1700	2.5500e-003		0.0323	0.0323		0.0323	0.0323		510.0780	510.0780	9.7800e-003	9.3500e-003	513.1823

OCMA Project (Operation - Project)
Orange County, Winter

5.2 Energy by Land Use - Natural Gas
Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse High Rise	4335.66	0.0468	0.3996	0.1700	2.5500e-003		0.0323	0.0323		0.0323	0.0323		510.0780	510.0780	9.7800e-003	9.3500e-003	513.1823
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Other Non-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
Total		0.0468	0.3996	0.1700	2.5500e-003		0.0323	0.0323		0.0323	0.0323		510.0780	510.0780	9.7800e-003	9.3500e-003	513.1823

OCMA Project (Operation - Project)
Orange County, Winter

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Other Non-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
Condo/Townhouse High Rise	3.15406	0.0340	0.2907	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.0660	371.0660	7.1100e-003	6.8000e-003	373.3243
Total		0.0340	0.2907	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.0660	371.0660	7.1100e-003	6.8000e-003	373.3243

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	10.9016	0.0958	8.2883	4.4000e-004		0.1810	0.1810		0.1796	0.1796	0.0000	2,153.6789	2,153.6789	0.0555	0.0392	2,166.9997
Unmitigated	10.9016	0.0958	8.2883	4.4000e-004		0.1810	0.1810		0.1796	0.1796	0.0000	2,153.6789	2,153.6789	0.0555	0.0392	2,166.9997

OCMA Project (Operation - Project)
Orange County, Winter

6.2 Area by SubCategory
Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.0383					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1961	1.0000e-005	0.0107	0.0000		0.1355	0.1355		0.1340	0.1340	0.0000	2,138.8235	2,138.8235	0.0410	0.0392	2,151.8401
Landscaping	0.2521	0.0957	8.2776	4.4000e-004		0.0455	0.0455		0.0455	0.0455		14.8554	14.8554	0.0145		15.1596
Total	10.9016	0.0958	8.2883	4.4000e-004		0.1810	0.1810		0.1796	0.1796	0.0000	2,153.6789	2,153.6789	0.0555	0.0392	2,166.9997

OCMA Project (Operation - Project)
Orange County, Winter

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	0.4151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.0383					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1961	1.0000e-005	0.0107	0.0000		0.1355	0.1355		0.1340	0.1340	0.0000	2,138.8235	2,138.8235	0.0410	0.0392	2,151.8401
Landscaping	0.2521	0.0957	8.2776	4.4000e-004		0.0455	0.0455		0.0455	0.0455		14.8554	14.8554	0.0145		15.1596
Total	10.9016	0.0958	8.2883	4.4000e-004		0.1810	0.1810		0.1796	0.1796	0.0000	2,153.6789	2,153.6789	0.0555	0.0392	2,166.9997

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

OCMA Project (Operation - Project)
Orange County, Winter

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 Vegetation

**OCMA Project (Operation - Project)
Orange County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.35	Acre	0.35	115,828.00	0
Other Non-Asphalt Surfaces	0.16	Acre	0.16	0.00	0
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.19	391,158.00	217
Other Asphalt Surfaces	0.30	Acre	0.30	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

OCMA Project (Operation - Project)
Orange County, Summer

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0 Land Use Square Feet to exclude striping

Vehicle Trips - OCMA - Residential Project Trip Generation Analysis by DKS 2016.

Vehicle Emission Factors - Assumes no heavy-heavy duty trucks, motor homes, buses.

Vehicle Emission Factors - Assumes no heavy-heavy duty trucks, motor homes, buses.

Vehicle Emission Factors - Assumes no heavy-heavy duty trucks, motor homes, buses.

Woodstoves - 100% gas fireplace.

Area Coating - Based on construction information provided by the Applicant.

Water And Wastewater - Fuscoe Engineering, October 2015.

Solid Waste - CalRecycle 2013. Residential Developments: Estimated Solid Waste Generation Rates.

Energy Mitigation -

Water Mitigation -

OCMA Project (Operation - Project)
Orange County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	6
tblAreaCoating	Area_Nonresidential_Interior	173742	0
tblAreaCoating	Area_Residential_Exterior	264032	6601
tblAreaCoating	Area_Residential_Interior	792095	633676
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	6	250
tblFireplaces	NumberGas	85.00	101.00
tblFireplaces	NumberNoFireplace	10.00	0.00
tblFireplaces	NumberWood	5.00	0.00
tblLandUse	LandUseSquareFeet	15,246.00	115,828.00
tblLandUse	LandUseSquareFeet	6,969.60	0.00
tblLandUse	LandUseSquareFeet	100,000.00	391,158.00
tblLandUse	LandUseSquareFeet	13,068.00	0.00
tblLandUse	LotAcreage	1.56	1.19
tblLandUse	Population	286.00	217.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSolidWaste	SolidWasteGenerationRate	46.00	223.20
tblVehicleEF	HHD	0.02	0.00
tblVehicleEF	HHD	0.02	0.00
tblVehicleEF	HHD	0.02	0.00
tblVehicleEF	LDA	0.51	0.65
tblVehicleEF	LDA	0.51	0.65
tblVehicleEF	LDA	0.51	0.65
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT2	0.19	0.25

OCMA Project (Operation - Project)
Orange County, Summer

tblVehicleEF	LDT2	0.19	0.25
tblVehicleEF	LDT2	0.19	0.25
tblVehicleEF	LHD1	0.04	6.5780e-003
tblVehicleEF	LHD1	0.04	6.5780e-003
tblVehicleEF	LHD1	0.04	6.5780e-003
tblVehicleEF	LHD2	5.9210e-003	9.2900e-004
tblVehicleEF	LHD2	5.9210e-003	9.2900e-004
tblVehicleEF	LHD2	5.9210e-003	9.2900e-004
tblVehicleEF	MCY	4.7470e-003	6.0330e-003
tblVehicleEF	MCY	4.7470e-003	6.0330e-003
tblVehicleEF	MCY	4.7470e-003	6.0330e-003
tblVehicleEF	MDV	0.15	0.02
tblVehicleEF	MDV	0.15	0.02
tblVehicleEF	MDV	0.15	0.02
tblVehicleEF	MH	2.2770e-003	0.00
tblVehicleEF	MH	2.2770e-003	0.00
tblVehicleEF	MH	2.2770e-003	0.00
tblVehicleEF	MHD	0.02	2.4930e-003
tblVehicleEF	MHD	0.02	2.4930e-003
tblVehicleEF	MHD	0.02	2.4930e-003
tblVehicleEF	OBUS	1.4540e-003	0.00
tblVehicleEF	OBUS	1.4540e-003	0.00
tblVehicleEF	OBUS	1.4540e-003	0.00
tblVehicleEF	SBUS	4.9800e-004	0.00
tblVehicleEF	SBUS	4.9800e-004	0.00
tblVehicleEF	SBUS	4.9800e-004	0.00
tblVehicleEF	UBUS	2.1590e-003	0.00

**OCMA Project (Operation - Project)
Orange County, Summer**

tblVehicleEF	UBUS	2.1590e-003	0.00
tblVehicleEF	UBUS	2.1590e-003	0.00
tblVehicleTrips	ST_TR	7.16	4.31
tblVehicleTrips	SU_TR	6.07	3.43
tblVehicleTrips	WD_TR	6.59	4.18
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	6,515,402.56	39,025,800.00
tblWater	OutdoorWaterUseRate	4,107,536.40	182,516,640.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	5.00	0.00
tblWoodstoves	NumberNoncatalytic	5.00	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	10.9016	0.0958	8.2883	4.4000e-004		0.1810	0.1810		0.1796	0.1796	0.0000	2,153.6789	2,153.6789	0.0555	0.0392	2,166.9997
Energy	0.0468	0.3996	0.1700	2.5500e-003		0.0323	0.0323		0.0323	0.0323		510.0780	510.0780	9.7800e-003	9.3500e-003	513.1823
Mobile	0.9384	0.9525	10.8853	0.0372	3.0765	0.0211	3.0976	0.8159	0.0196	0.8355		2,669.6208	2,669.6208	0.1040		2,671.8040
Total	11.8867	1.4478	19.3437	0.0402	3.0765	0.2344	3.3109	0.8159	0.2314	1.0474	0.0000	5,333.3777	5,333.3777	0.1692	0.0486	5,351.9859

OCMA Project (Operation - Project)
Orange County, Summer

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	10.9016	0.0958	8.2883	4.4000e-004		0.1810	0.1810		0.1796	0.1796	0.0000	2,153.6789	2,153.6789	0.0555	0.0392	2,166.9997
Energy	0.0340	0.2907	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.0660	371.0660	7.1100e-003	6.8000e-003	373.3243
Mobile	0.9384	0.9525	10.8853	0.0372	3.0765	0.0211	3.0976	0.8159	0.0196	0.8355		2,669.6208	2,669.6208	0.1040		2,671.8040
Total	11.8740	1.3389	19.2973	0.0395	3.0765	0.2256	3.3021	0.8159	0.2226	1.0386	0.0000	5,194.3658	5,194.3658	0.1666	0.0460	5,212.1279

	ROG	NOx	CO	SO2	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	0.11	7.52	0.24	1.72	0.00	3.75	0.27	0.00	3.80	0.84	0.00	2.61	2.61	1.58	5.25	2.61

OCMA Project (Operation - Project)
Orange County, Summer

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	0.9384	0.9525	10.8853	0.0372	3.0765	0.0211	3.0976	0.8159	0.0196	0.8355		2,669.6208	2,669.6208	0.1040		2,671.8040
Unmitigated	0.9384	0.9525	10.8853	0.0372	3.0765	0.0211	3.0976	0.8159	0.0196	0.8355		2,669.6208	2,669.6208	0.1040		2,671.8040

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	418.00	431.00	343.00	1,398,103	1,398,103
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	418.00	431.00	343.00	1,398,103	1,398,103

OCMA Project (Operation - Project)
Orange County, Summer

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.646715	0.071705	0.245546	0.020000	0.006578	0.000929	0.002493	0.000000	0.000000	0.000000	0.006033	0.000000	0.000000

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0340	0.2907	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.0660	371.0660	7.1100e-003	6.8000e-003	373.3243
NaturalGas Unmitigated	0.0468	0.3996	0.1700	2.5500e-003		0.0323	0.0323		0.0323	0.0323		510.0780	510.0780	9.7800e-003	9.3500e-003	513.1823

OCMA Project (Operation - Project)
Orange County, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Other Non-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
Condo/Townhouse High Rise	4335.66	0.0468	0.3996	0.1700	2.5500e-003		0.0323	0.0323		0.0323	0.0323		510.0780	510.0780	9.7800e-003	9.3500e-003	513.1823	
Total		0.0468	0.3996	0.1700	2.5500e-003		0.0323	0.0323		0.0323	0.0323		510.0780	510.0780	9.7800e-003	9.3500e-003	513.1823	

OCMA Project (Operation - Project)
Orange County, Summer

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Other Non-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
Condo/Townhouse High Rise	3.15406	0.0340	0.2907	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.0660	371.0660	7.1100e-003	6.8000e-003	373.3243
Total		0.0340	0.2907	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.0660	371.0660	7.1100e-003	6.8000e-003	373.3243

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	10.9016	0.0958	8.2883	4.4000e-004		0.1810	0.1810		0.1796	0.1796	0.0000	2,153.6789	2,153.6789	0.0555	0.0392	2,166.9997
Unmitigated	10.9016	0.0958	8.2883	4.4000e-004		0.1810	0.1810		0.1796	0.1796	0.0000	2,153.6789	2,153.6789	0.0555	0.0392	2,166.9997

OCMA Project (Operation - Project)
Orange County, Summer

6.2 Area by SubCategory
Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.0383					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1961	1.0000e-005	0.0107	0.0000		0.1355	0.1355		0.1340	0.1340	0.0000	2,138.8235	2,138.8235	0.0410	0.0392	2,151.8401
Landscaping	0.2521	0.0957	8.2776	4.4000e-004		0.0455	0.0455		0.0455	0.0455		14.8554	14.8554	0.0145		15.1596
Total	10.9016	0.0958	8.2883	4.4000e-004		0.1810	0.1810		0.1796	0.1796	0.0000	2,153.6789	2,153.6789	0.0555	0.0392	2,166.9997

OCMA Project (Operation - Project)
Orange County, Summer

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	0.4151					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.0383					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1961	1.0000e-005	0.0107	0.0000		0.1355	0.1355		0.1340	0.1340	0.0000	2,138.8235	2,138.8235	0.0410	0.0392	2,151.8401
Landscaping	0.2521	0.0957	8.2776	4.4000e-004		0.0455	0.0455		0.0455	0.0455		14.8554	14.8554	0.0145		15.1596
Total	10.9016	0.0958	8.2883	4.4000e-004		0.1810	0.1810		0.1796	0.1796	0.0000	2,153.6789	2,153.6789	0.0555	0.0392	2,166.9997

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

OCMA Project (Operation - Project)
Orange County, Summer

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 Vegetation

**OCMA Project (Operation - Project)
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.35	Acre	0.35	115,828.00	0
Other Non-Asphalt Surfaces	0.16	Acre	0.16	0.00	0
Condo/Townhouse High Rise	100.00	Dwelling Unit	1.19	391,158.00	217
Other Asphalt Surfaces	0.30	Acre	0.30	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

OCMA Project (Operation - Project)
Orange County, Annual

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 0 Land Use Square Feet to exclude striping

Vehicle Trips - OCMA - Residential Project Trip Generation Analysis by DKS 2016.

Vehicle Emission Factors - Assumes no heavy-heavy duty trucks, motor homes, buses.

Vehicle Emission Factors - Assumes no heavy-heavy duty trucks, motor homes, buses.

Vehicle Emission Factors - Assumes no heavy-heavy duty trucks, motor homes, buses.

Woodstoves - 100% gas fireplace.

Area Coating - Based on construction information provided by the Applicant.

Water And Wastewater - Fuscoe Engineering, October 2015.

Solid Waste - CalRecycle 2013. Residential Developments: Estimated Solid Waste Generation Rates.

Energy Mitigation -

Water Mitigation -

OCMA Project (Operation - Project)
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Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	6
tblAreaCoating	Area_Nonresidential_Interior	173742	0
tblAreaCoating	Area_Residential_Exterior	264032	6601
tblAreaCoating	Area_Residential_Interior	792095	633676
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	6	250
tblFireplaces	NumberGas	85.00	101.00
tblFireplaces	NumberNoFireplace	10.00	0.00
tblFireplaces	NumberWood	5.00	0.00
tblLandUse	LandUseSquareFeet	15,246.00	115,828.00
tblLandUse	LandUseSquareFeet	6,969.60	0.00
tblLandUse	LandUseSquareFeet	100,000.00	391,158.00
tblLandUse	LandUseSquareFeet	13,068.00	0.00
tblLandUse	LotAcreage	1.56	1.19
tblLandUse	Population	286.00	217.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSolidWaste	SolidWasteGenerationRate	46.00	223.20
tblVehicleEF	HHD	0.02	0.00
tblVehicleEF	HHD	0.02	0.00
tblVehicleEF	HHD	0.02	0.00
tblVehicleEF	LDA	0.51	0.65
tblVehicleEF	LDA	0.51	0.65
tblVehicleEF	LDA	0.51	0.65
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT2	0.19	0.25

OCMA Project (Operation - Project)
Orange County, Annual

tblVehicleEF	LDT2	0.19	0.25
tblVehicleEF	LDT2	0.19	0.25
tblVehicleEF	LHD1	0.04	6.5780e-003
tblVehicleEF	LHD1	0.04	6.5780e-003
tblVehicleEF	LHD1	0.04	6.5780e-003
tblVehicleEF	LHD2	5.9210e-003	9.2900e-004
tblVehicleEF	LHD2	5.9210e-003	9.2900e-004
tblVehicleEF	LHD2	5.9210e-003	9.2900e-004
tblVehicleEF	MCY	4.7470e-003	6.0330e-003
tblVehicleEF	MCY	4.7470e-003	6.0330e-003
tblVehicleEF	MCY	4.7470e-003	6.0330e-003
tblVehicleEF	MDV	0.15	0.02
tblVehicleEF	MDV	0.15	0.02
tblVehicleEF	MDV	0.15	0.02
tblVehicleEF	MH	2.2770e-003	0.00
tblVehicleEF	MH	2.2770e-003	0.00
tblVehicleEF	MH	2.2770e-003	0.00
tblVehicleEF	MHD	0.02	2.4930e-003
tblVehicleEF	MHD	0.02	2.4930e-003
tblVehicleEF	MHD	0.02	2.4930e-003
tblVehicleEF	OBUS	1.4540e-003	0.00
tblVehicleEF	OBUS	1.4540e-003	0.00
tblVehicleEF	OBUS	1.4540e-003	0.00
tblVehicleEF	SBUS	4.9800e-004	0.00
tblVehicleEF	SBUS	4.9800e-004	0.00
tblVehicleEF	SBUS	4.9800e-004	0.00
tblVehicleEF	UBUS	2.1590e-003	0.00

OCMA Project (Operation - Project)
Orange County, Annual

tblVehicleEF	UBUS	2.1590e-003	0.00
tblVehicleEF	UBUS	2.1590e-003	0.00
tblVehicleTrips	ST_TR	7.16	4.31
tblVehicleTrips	SU_TR	6.07	3.43
tblVehicleTrips	WD_TR	6.59	4.18
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	6,515,402.56	39,025,800.00
tblWater	OutdoorWaterUseRate	4,107,536.40	182,516,640.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	5.00	0.00
tblWoodstoves	NumberNoncatalytic	5.00	0.00

OCMA Project (Operation - Project)
Orange County, Annual

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	1.9417	0.0120	1.0348	5.0000e-005		7.3800e-003	7.3800e-003		7.3600e-003	7.3600e-003	0.0000	25.9384	25.9384	2.1100e-003	4.4000e-004	26.1205
Energy	8.5300e-003	0.0729	0.0310	4.7000e-004		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	431.6107	431.6107	0.0176	4.8500e-003	433.4833
Mobile	0.1598	0.1835	1.8316	6.1800e-003	0.5220	3.6500e-003	0.5257	0.1386	3.3800e-003	0.1420	0.0000	402.0684	402.0684	0.0163	0.0000	402.4102
Waste						0.0000	0.0000		0.0000	0.0000	45.3076	0.0000	45.3076	2.6776	0.0000	101.5372
Water						0.0000	0.0000		0.0000	0.0000	13.8074	725.6949	739.5023	0.0809	0.0369	752.6485
Total	2.1100	0.2684	2.8975	6.7000e-003	0.5220	0.0169	0.5390	0.1386	0.0166	0.1553	59.1150	1,585.3124	1,644.4274	2.7945	0.0422	1,716.1997

OCMA Project (Operation - Project)
Orange County, Annual

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	1.9417	0.0120	1.0348	5.0000e-005		7.3800e-003	7.3800e-003		7.3600e-003	7.3600e-003	0.0000	25.9384	25.9384	2.1100e-003	4.4000e-004	26.1205
Energy	6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	363.1776	363.1776	0.0151	4.0000e-003	364.7324
Mobile	0.1598	0.1835	1.8316	6.1800e-003	0.5220	3.6500e-003	0.5257	0.1386	3.3800e-003	0.1420	0.0000	402.0684	402.0684	0.0163	0.0000	402.4102
Waste						0.0000	0.0000		0.0000	0.0000	45.3076	0.0000	45.3076	2.6776	0.0000	101.5372
Water						0.0000	0.0000		0.0000	0.0000	11.0459	661.2145	672.2604	0.0682	0.0303	683.0754
Total	2.1077	0.2486	2.8891	6.5700e-003	0.5220	0.0153	0.5374	0.1386	0.0150	0.1537	56.3535	1,452.3990	1,508.7525	2.7793	0.0347	1,577.8757

	ROG	NOx	CO	SO2	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	0.11	7.40	0.29	1.94	0.00	9.51	0.30	0.00	9.68	1.04	4.67	8.38	8.25	0.54	17.79	8.06

OCMA Project (Operation - Project)
Orange County, Annual

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	0.1598	0.1835	1.8316	6.1800e-003	0.5220	3.6500e-003	0.5257	0.1386	3.3800e-003	0.1420	0.0000	402.0684	402.0684	0.0163	0.0000	402.4102
Unmitigated	0.1598	0.1835	1.8316	6.1800e-003	0.5220	3.6500e-003	0.5257	0.1386	3.3800e-003	0.1420	0.0000	402.0684	402.0684	0.0163	0.0000	402.4102

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	418.00	431.00	343.00	1,398,103	1,398,103
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	418.00	431.00	343.00	1,398,103	1,398,103

OCMA Project (Operation - Project)
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4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.646715	0.071705	0.245546	0.020000	0.006578	0.000929	0.002493	0.000000	0.000000	0.000000	0.006033	0.000000	0.000000

OCMA Project (Operation - Project)
Orange County, Annual

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	301.7435	301.7435	0.0139	2.8700e-003	302.9244
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	347.1616	347.1616	0.0160	3.3000e-003	348.5202
NaturalGas Mitigated	6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4341	61.4341	1.1800e-003	1.1300e-003	61.8080
NaturalGas Unmitigated	8.5300e-003	0.0729	0.0310	4.7000e-004		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	84.4491	84.4491	1.6200e-003	1.5500e-003	84.9631

OCMA Project (Operation - Project)
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5.2 Energy by Land Use - Natural Gas
Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Other Non-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
Condo/Townhouse High Rise	1.58252e+006	8.5300e-003	0.0729	0.0310	4.7000e-004		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	84.4491	84.4491	1.6200e-003	1.5500e-003	84.9631
Total		8.5300e-003	0.0729	0.0310	4.7000e-004		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	84.4491	84.4491	1.6200e-003	1.5500e-003	84.9631

OCMA Project (Operation - Project)
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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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Other Non-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
Condo/Townhouse High Rise	1.15123e+006	6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4341	61.4341	1.1800e-003	1.1300e-003	61.8080
Total		6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4341	61.4341	1.1800e-003	1.1300e-003	61.8080

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse High Rise	432463	123.7566	5.6900e-003	1.1800e-003	124.2409
Enclosed Parking with Elevator	780681	223.4050	0.0103	2.1200e-003	224.2793
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		347.1616	0.0160	3.3000e-003	348.5202

OCMA Project (Operation - Project)
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Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse High Rise	425856	121.8660	5.6000e-003	1.1600e-003	122.3430
Enclosed Parking with Elevator	628575	179.8775	8.2700e-003	1.7100e-003	180.5814
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		301.7435	0.0139	2.8700e-003	302.9244

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	1.9417	0.0120	1.0348	5.0000e-005		7.3800e-003	7.3800e-003		7.3600e-003	7.3600e-003	0.0000	25.9384	25.9384	2.1100e-003	4.4000e-004	26.1205
Unmitigated	1.9417	0.0120	1.0348	5.0000e-005		7.3800e-003	7.3800e-003		7.3600e-003	7.3600e-003	0.0000	25.9384	25.9384	2.1100e-003	4.4000e-004	26.1205

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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	0.0758					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8320					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.4500e-003	0.0000	1.3000e-004	0.0000		1.6900e-003	1.6900e-003		1.6800e-003	1.6800e-003	0.0000	24.2539	24.2539	4.6000e-004	4.4000e-004	24.4015
Landscaping	0.0315	0.0120	1.0347	5.0000e-005		5.6900e-003	5.6900e-003		5.6900e-003	5.6900e-003	0.0000	1.6846	1.6846	1.6400e-003	0.0000	1.7191
Total	1.9417	0.0120	1.0348	5.0000e-005		7.3800e-003	7.3800e-003		7.3700e-003	7.3700e-003	0.0000	25.9384	25.9384	2.1000e-003	4.4000e-004	26.1205

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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	tons/yr										MT/yr					
Architectural Coating	0.0758					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8320					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.4500e-003	0.0000	1.3000e-004	0.0000		1.6900e-003	1.6900e-003		1.6800e-003	1.6800e-003	0.0000	24.2539	24.2539	4.6000e-004	4.4000e-004	24.4015
Landscaping	0.0315	0.0120	1.0347	5.0000e-005		5.6900e-003	5.6900e-003		5.6900e-003	5.6900e-003	0.0000	1.6846	1.6846	1.6400e-003	0.0000	1.7191
Total	1.9417	0.0120	1.0348	5.0000e-005		7.3800e-003	7.3800e-003		7.3700e-003	7.3700e-003	0.0000	25.9384	25.9384	2.1000e-003	4.4000e-004	26.1205

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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	672.2604	0.0682	0.0303	683.0754
Unmitigated	739.5023	0.0809	0.0369	752.6485

OCMA Project (Operation - Project)
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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse High Rise	39.0258 / 182.517	739.5023	0.0809	0.0369	752.6485
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		739.5023	0.0809	0.0369	752.6485

**OCMA Project (Operation - Project)
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Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse High Rise	31.2206 / 171.383	672.2604	0.0682	0.0303	683.0754
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		672.2604	0.0682	0.0303	683.0754

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	45.3076	2.6776	0.0000	101.5372
Unmitigated	45.3076	2.6776	0.0000	101.5372

OCMA Project (Operation - Project)
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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse High Rise	223.2	45.3076	2.6776	0.0000	101.5372
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		45.3076	2.6776	0.0000	101.5372

OCMA Project (Operation - Project)
Orange County, Annual

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse High Rise	223.2	45.3076	2.6776	0.0000	101.5372
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		45.3076	2.6776	0.0000	101.5372

9.0 Operational Offroad

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

OCMA Project (Operation - Project)
Orange 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
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.08	13.08	13.10	13.03	13.08
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	27.20	27.25	27.26	27.66	27.29	27.29	0.00	27.25	27.25	27.16	27.10	27.25
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	8.89	9.09	15.67	18.03	9.24
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

OCMA Project (Operation - Project)

Orange County, Mitigation Report

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	0.05	0.24		
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			
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			

OCMA Project (Operation - Project)

Orange County, Mitigation Report

	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		

OCMA Project (Operation - Project)

Orange County, Mitigation Report

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)	100.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

OCMA Project (Operation - Project)

Orange County, Mitigation Report

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	33.50	
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

OCMA Project (Operation - Project)

Orange County, Mitigation Report

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	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Construction Localized Significance Thresholds: Building Demolition + Asphalt Demolition

SRA No.	Acres	Source Receptor	
		Distance (meters)	Source Receptor Distance (Feet)
18	1.00	25	82

Source Receptor	North Coastal Orange County	Equipment	Acres/8-hr Day	Acres/Hr	Equipment Used	Number of Hrs	Acres
Distance (meters)	25	Tractors	0.5	0.0625	3	8	1.5
NOx	92	Graders	0.5	0.0625			0
CO	647	Dozers	0.5	0.0625			0
PM10	4.00	Scrapers	1	0.125			0
PM2.5	3.00					Acres	1.50

	Acres	25	50	100	200	500
NOx	1	92	93	108	140	219
	1	92	93	108	140	219
CO	1	647	738	1090	2096	6841
	1	647	738	1090	2096	6841
PM10	1	4	13	27	54	135
	1	4	13	27	54	135
PM2.5	1	3	5	9	22	76
	1	3	5	9	22	76
North Coastal Orange County						
1.00 Acres						
NOx	25	92	93	108	140	219
CO	647	738	1090	2096	6841	
PM10	4	13	27	54	135	
PM2.5	3	5	9	22	76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Site Preparation

SRA No.	Acres	Source Receptor	
		Distance (meters)	Source Receptor Distance (Feet)
18	0.50	25	82

Source Receptor	North Coastal Orange County	Equipment	Acres/8-hr Day	Acres/Hr	Equipment Used	Number of Hrs	Acres
Distance (meters)	25	Tractors	0.5	0.0625	1	8	0.5
NOx	92	Graders	0.5	0.0625			0
CO	647	Dozers	0.5	0.0625			0
PM10	4.00	Scrapers	1	0.125			0
PM2.5	3.00					Acres	0.50

	Acres	25	50	100	200	500
NOx	1	92	93	108	140	219
	1	92	93	108	140	219
		92	93	108	140	219
CO	1	647	738	1090	2096	6841
	1	647	738	1090	2096	6841
		647	738	1090	2096	6841
PM10	1	4	13	27	54	135
	1	4	13	27	54	135
		4	13	27	54	135
PM2.5	1	3	5	9	22	76
	1	3	5	9	22	76
		3	5	9	22	76

North Coastal Orange County						
0.50 Acres						
	25	50	100	200	500	
NOx	92	93	108	140	219	
CO	647	738	1090	2096	6841	
PM10	4	13	27	54	135	
PM2.5	3	5	9	22	76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Mass Excavation + Utility Trenching

SRA No.	Acres	Source Receptor	
		Distance (meters)	Source Receptor Distance (Feet)
18	1.00	25	82

Source Receptor	North Coastal Orange County	Equipment	Acres/8-hr Day	Acres/Hr	Equipment Used	Number of Hrs	Acres
Distance (meters)	25	Tractors	0.5	0.0625	2	8	1
NOx	92	Graders	0.5	0.0625			0
CO	647	Dozers	0.5	0.0625			0
PM10	4.00	Scrapers	1	0.125			0
PM2.5	3.00					Acres	1.00

	Acres	25	50	100	200	500
NOx	1	92	93	108	140	219
	1	92	93	108	140	219
CO	1	647	738	1090	2096	6841
	1	647	738	1090	2096	6841
PM10	1	4	13	27	54	135
	1	4	13	27	54	135
PM2.5	1	3	5	9	22	76
	1	3	5	9	22	76
North Coastal Orange County						
1.00 Acres						
NOx	25	92	93	108	140	219
CO	647	738	1090	2096	6841	
PM10	4	13	27	54	135	
PM2.5	3	5	9	22	76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Utility Trenching + Fine Grading

SRA No.	Acres	Source Receptor	
		Distance (meters)	Source Receptor Distance (Feet)
18	1.00	25	82

Source Receptor	North Coastal Orange County	Equipment	Acres/8-hr Day	Acres/Hr	Equipment Used	Number of Hrs	Acres
Distance (meters)	25	Tractors	0.5	0.0625	2	8	1
NOx	92	Graders	0.5	0.0625			0
CO	647	Dozers	0.5	0.0625			0
PM10	4.00	Scrapers	1	0.125			0
PM2.5	3.00					Acres	1.00

	Acres	25	50	100	200	500
NOx	1	92	93	108	140	219
	1	92	93	108	140	219
CO	1	647	738	1090	2096	6841
	1	647	738	1090	2096	6841
PM10	1	4	13	27	54	135
	1	4	13	27	54	135
PM2.5	1	3	5	9	22	76
	1	3	5	9	22	76
North Coastal Orange County						
1.00 Acres						
NOx	25	92	93	108	140	219
CO	647	738	1090	2096	6841	
PM10	4	13	27	54	135	
PM2.5	3	5	9	22	76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction

SRA No.	Acres	Source Receptor	
		Distance (meters)	Source Receptor Distance (Feet)
18	0.00	25	82

Source Receptor	North Coastal Orange County	Equipment	Acres/8-hr Day	Acres/Hr	Equipment Used	Number of Hrs	Acres
Distance (meters)	25	Tractors	0.5	0.0625			0
NOx	92	Graders	0.5	0.0625			0
CO	647	Dozers	0.5	0.0625			0
PM10	4.00	Scrapers	1	0.125			0
PM2.5	3.00					Acres	0.00

	Acres	25	50	100	200	500
NOx	1	92	93	108	140	219
	1	92	93	108	140	219
CO	1	647	738	1090	2096	6841
	1	647	738	1090	2096	6841
PM10	1	4	13	27	54	135
	1	4	13	27	54	135
PM2.5	1	3	5	9	22	76
	1	3	5	9	22	76
North Coastal Orange County						
0.00 Acres						
NOx	25	92	93	108	140	219
CO	647	738	1090	2096	6841	
PM10	4	13	27	54	135	
PM2.5	3	5	9	22	76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction + Asphalt Paving + Architectural Coating

SRA No.	Acres	Source Receptor		Equipment	Acres/8-hr Day	Acres/Hr	Equipment Used	Number of Hrs	Acres
		Distance (meters)	Source Receptor Distance (Feet)						
18	0.50	25	82						
Source Receptor	North Coastal Orange County								
Distance (meters)	25			Tractors	0.5	0.0625	1	8	0.5
NOx	92			Graders	0.5	0.0625			0
CO	647			Dozers	0.5	0.0625			0
PM10	4.00			Scrapers	1	0.125			0
PM2.5	3.00							Acres	0.50
	Acres	25	50		100	200	500		
NOx	1	92	93		108	140	219		
	1	92	93		108	140	219		
		92	93		108	140	219		
CO	1	647	738		1090	2096	6841		
	1	647	738		1090	2096	6841		
		647	738		1090	2096	6841		
PM10	1	4	13		27	54	135		
	1	4	13		27	54	135		
		4	13		27	54	135		
PM2.5	1	3	5		9	22	76		
	1	3	5		9	22	76		
		3	5		9	22	76		
North Coastal Orange County									
0.50 Acres									
	25	50	100	200	500				
NOx	92	93	108	140	219				
CO	647	738	1090	2096	6841				
PM10	4	13	27	54	135				
PM2.5	3	5	9	22	76				

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: Building Construction + Finishing/Landscaping

SRA No.	Acres	Source Receptor	
		Distance (meters)	Source Receptor Distance (Feet)
18	0.50	25	82

Source Receptor Distance (meters)	North Coastal Orange County	Equipment	Acres/8-hr Day	Acres/Hr	Equipment Used	Number of Hrs	Acres
	25	Tractors	0.5	0.0625	1	8	0.5
NOx	92	Graders	0.5	0.0625			0
CO	647	Dozers	0.5	0.0625			0
PM10	4.00	Scrapers	1	0.125			0
PM2.5	3.00					Acres	0.50

	Acres	25	50	100	200	500
NOx	1	92	93	108	140	219
	1	92	93	108	140	219
		92	93	108	140	219
CO	1	647	738	1090	2096	6841
	1	647	738	1090	2096	6841
		647	738	1090	2096	6841
PM10	1	4	13	27	54	135
	1	4	13	27	54	135
		4	13	27	54	135
PM2.5	1	3	5	9	22	76
	1	3	5	9	22	76
		3	5	9	22	76

North Coastal Orange County

0.50 Acres

	25	50	100	200	500
NOx	92	93	108	140	219
CO	647	738	1090	2096	6841
PM10	4	13	27	54	135
PM2.5	3	5	9	22	76

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1, 2006 – 2008

Construction Localized Significance Thresholds: Finishing/Landscaping

SRA No.	Acres	Source Receptor	
		Distance (meters)	Source Receptor Distance (Feet)
18	0.50	25	82

Source Receptor Distance (meters)	North Coastal Orange County	Equipment	Acres/8-hr Day	Acres/Hr	Equipment Used	Number of Hrs	Acres
	25	Tractors	0.5	0.0625	1	8	0.5
NOx	92	Graders	0.5	0.0625			0
CO	647	Dozers	0.5	0.0625			0
PM10	4.00	Scrapers	1	0.125			0
PM2.5	3.00					Acres	0.50

	Acres	25	50	100	200	500
NOx	1	92	93	108	140	219
	1	92	93	108	140	219
		92	93	108	140	219
CO	1	647	738	1090	2096	6841
	1	647	738	1090	2096	6841
		647	738	1090	2096	6841
PM10	1	4	13	27	54	135
	1	4	13	27	54	135
		4	13	27	54	135
PM2.5	1	3	5	9	22	76
	1	3	5	9	22	76
		3	5	9	22	76

North Coastal Orange County

0.50 Acres		25	50	100	200	500
NOx	92	93	108	140	219	
CO	647	738	1090	2096	6841	
PM10	4	13	27	54	135	
PM2.5	3	5	9	22	76	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	1	18	1
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Operation Localized Significance Thresholds

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
18	2.00	25	82

Source Receptor North Coastal Orange County

Distance (meters)	25
NOx	131
CO	962
PM10	2.00
PM2.5	2.00

	Acres	25	50	100	200	500
NOx	2	131	128	139	165	235
	2	131	128	139	165	235
	2	131	128	139	165	235
CO	2	962	1089	1506	2615	7493
	2	962	1089	1506	2615	7493
	2	962	1089	1506	2615	7493
PM10	2	2	6	9	15	35
	2	2	6	9	15	35
	2	2	6	9	15	35
PM2.5	2	2	2	3	7	20
	2	2	2	3	7	20
	2	2	2	3	7	20

North Coastal Orange County

2.00 Acres		25	50	100	200	500
NOx	131	128	139	165	235	
CO	962	1089	1506	2615	7493	
PM10	2	6	9	15	35	
PM2.5	2	2	3	7	20	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
18	2	18	2
Distance Increment Below			
25			
Distance Increment Above			
25			

Updated: 10/21/2010 - Table C-1. 2006 – 2008

NEWPORT BEACH HARBOR, CALIFORNIA (046175)

Period of Record Monthly Climate Summary

Period of Record : 01/01/1921 to 01/20/2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	63.2	63.4	63.9	65.2	67.0	69.1	72.2	73.4	73.0	70.9	67.8	64.2	67.8
Average Min. Temperature (F)	46.9	48.2	49.8	52.3	56.0	59.1	62.2	63.2	61.2	57.2	51.4	47.5	54.6
Average Total Precipitation (in.)	2.19	2.30	1.72	0.92	0.23	0.07	0.01	0.06	0.21	0.38	1.08	1.85	11.00
Average Total SnowFall (in.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Snow Depth (in.)	0	0	0	0	0	0	0	0	0	0	0	0	0

Percent of possible observations for period of record.

Max. Temp.: 98.2% Min. Temp.: 98.2% Precipitation: 98.4% Snowfall: 93.6% Snow Depth: 93.6%

Check [Station Metadata](#) or [Metadata graphics](#) for more detail about data completeness.

Western Regional Climate Center, wrcc@dri.edu