

Appendix AQ-GHG-1

CalEEMod Outputs for Air Quality and
Greenhouse Gas Emissions

Mather South Land Uses - NOP and CalEEMod

NOP			CalEEMod Full Buildout 2032				CalEEMod Partial Buildout 2020				
Land Use	Amount	Unit	Acres	Land Use	Amount	Unit	Acres	Land Use	Amount	Unit	Acres
Open Space	210.5 acres		210.5	City Park ¹	44.03 acres		44.03	City Park ¹	12.77 acres		12.77
Parks & Recreation	44.03 acres		44.03	General Office Building ²	415250 sq ft		30.1795	General Office Building ²	120,423 sq ft		8.75
Environmental Education Campus				Regional Shopping Center ³	185000 sq ft		21.06	Regional Shopping Center ³	53,650 sq ft		6.11
Commercial - Office	275000 sq ft		22.9	Health Club ⁴	15000 sq ft		5.8	Health Club ⁴	4,350 sq ft		1.68
Residential R-20 (20 du/ac)	200 du		5	Elementary School ⁵	1500 students		22.19	Elementary School ⁵	435 students		6.44
Research & Development Campus				Single Family Housing ⁶	2291 du		353.23	Single Family Housing ⁶	664 du		102.44
Commercial - Office	325000 sq ft		21.35	Apartments Low Rise ⁷	449 du		44.94	Apartments Low Rise ⁷	130 du		13.03
Commercial				Apartments Mid Rise ⁸	781 du		34.07	Apartments Mid Rise ⁸	226 du		9.88
Retail	185000 sq ft		21.06	Research & Development ⁹	149000 sq ft		11.722	Research & Development ⁹	43,210 sq ft		3.40
Community Center	15000 sq ft		5.8	Light General Industry ¹⁰	35750 sq ft		2.3485	Light General Industry ¹⁰	10,368 sq ft		0.68
Public Facilities											
School			22.19								
Utilities/Water Storage			5.27								
Roadways			62.97								
Residential											
RD-5	849 du		154.66								
RD-6	476 du		71.38								
RD-7	628 du		84.89								
RD-8	338 du		42.3								
RD-10	449 du		44.94								
RD-20	581 du		29.07								

¹ Only parks & recreation used an input as city park land use. Open space excluded, as not anticipated to be a trip-generating land use.

² 60% Commercial - office for Environmental Education Campus; 77% of Research & Development Campus; combined and input as general office building

³ Retail input as regional shopping center

⁴ Community center anticipated to be used for fitness/gym, swimming pool, tennis courts; input as health club land use

⁵ School represents two elementary schools with 750 students each

⁶ RD-5, RD-6, RD-7, RD-8 considered single family housing, combined as such

⁷ RD-10 considered low rise apartments

⁸ RD-20 from Environmental Education Campus and Residential combined and input as apartments mid rise

⁹ 40% Commercial - office of Environmental Education Campus used for research; 12% of Research & Development Campus; input as Research & Development

¹⁰ Light industry accounts for 11% of Research & Development Campus

Water Demand Factoring for CalEEMod

Land Use		Units / sq. ft.	Acres	Demand Factor (af/ac/yr)	Average Annual Demand (af/yr)	Average Annual Demand (gal/yr)	CalEEMod Default % Indoor	CalEEMod Default % Outdoor	Project Indoor Use (gal/yr)	Project Outdoor Use (gal/yr)	Maximum Day Demand (gpm)
RD 5-7		1,950	310.93	2.13	662.28	215,804,893.55	0.61	0.39	132,360,768.10	83,444,125.45	821.41
RD 8-10		791	87.24	2.44	212.87	69,362,468.63	0.61	0.39	42,542,453.39	26,820,015.24	264.01
RD 20		781	34.07	3.33	113.45	36,968,806.09	0.61	0.39	22,674,275.31	14,294,530.78	140.71
Parks/Landscape/Trail Corridors		-	62.36	2.80	174.61	56,896,191.41	-	1.00	-	56,896,191.41	216.56
Public - Schools		-	22.19	0.81	17.97	5,856,813.29	0.28	0.72	1,639,745.37	4,217,067.92	22.29
Commercial - Retail/Clubhouse		200,000	26.86	2.02	54.26	17,679,762.88	0.62	0.38	10,961,445.57	6,718,317.31	67.29
EEC/R&D Campuses		600,000	44.25	2.02	89.39	29,126,191.64	0.62	0.38	18,058,222.56	11,067,969.08	110.86
Open Space		-	192.17	-	-	-	-	-	-	-	-
Roadways		-	62.97	0.81	51.01	16,620,258.35	-	1.00	-	16,620,258.35	63.26
Public - Water Storage Facility		-	5.27	0.81	4.27	1,390,960.16	-	1.00	-	1,390,960.16	5.29
Total	Units	3,522	848.31		1,380.10	449,706,345.98					1,711.71
Total	Sq. Ft.	800,000		7.5% Loss	103.51	33.73					
				Total Demand	1,483.61	483.43					

gal/af 325851

Mather South Construction Emissions Summary

Phase	Year	ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)
1	1	18	157	125	45	6	52	17	6	23
1	2	8	52	61	11	1	12	3	1	4
1	3	7	47	57	11	1	12	3	1	4
1	4	40	45	62	13	1	14	3	1	4
2	1	10	89	84	44	3	48	17	3	20
2	2	4	26	35	6	1	7	2	1	2
2	3	40	26	38	7	1	8	2	1	3
3	1	11	91	95	51	3	54	18	3	21
3	2	6	38	48	13	1	14	4	1	4
3	3	40	38	53	15	1	16	4	1	5
4	1	9	81	80	43	3	46	17	3	19
4	2	4	23	34	9	0	9	2	0	3
4	3	3	23	33	9	0	9	2	0	3
4	4	34	24	36	10	0	10	3	0	3

Phase 1 Construction

Year 1 - 2019

Phase		ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)
Site Prep	Unmitigated On-site	4.335	45.5727	22.063	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298
	Unmitigated Off-site	0.11	0.066	0.9292	0.2053	1.40E-03	0.2067	0.0545	1.29E-03	0.0557
	Total	4.445	45.6387	22.9922	18.2716	2.3918	20.6633	9.9852	2.20039	12.1855
Grading	Unmitigated On-site	4.7389	54.5202	33.3768	16.0451	2.3827	18.4278	4.3925	2.192	6.5845
	Unmitigated Off-site	0.1222	0.0733	1.0324	0.2281	1.56E-03	0.2297	0.0605	1.44E-03	0.0619
	Total	4.8611	54.5935	34.4092	16.2732	2.38426	18.6575	4.453	2.19344	6.6464
Building	Unmitigated On-site	2.3612	21.0788	17.1638		1.2899	1.2899		1.2127	1.2127
	Unmitigated Off-site	6.1018	35.7512	49.9789	10.757	0.3277	11.0847	2.8954	0.3114	3.2067
	Total	8.463	56.83	67.1427	10.757	1.6176	12.3746	2.8954	1.5241	4.4194
Construction Totals	Maximum	17.7691	157.0622	124.5441	45.3018	6.39366	51.6954	17.3336	5.91793	23.2513

Phase 1 Construction

Year 2 - 2020

Phase		ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)
Building	Unmitigated On-site	2.1198	19.186	16.8485		1.1171	1.1171		1.0503	1.0503
	Unmitigated Off-site	5.444	32.4009	44.4455	10.7568	0.2354	10.9922	2.8953	0.2232	3.1184
	Total	7.5638	51.5869	61.294	10.7568	1.3525	12.1093	2.8953	1.2735	4.1687
Construction Totals	Maximum	7.5638	51.5869	61.294	10.7568	1.3525	12.1093	2.8953	1.2735	4.1687

Phase 1 Construction

Year 3 -2021

Phase		ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)
Building	Unmitigated On-site	1.9009	17.4321	16.5752		0.9586	0.9586		0.9013	0.9013
	Unmitigated Off-site	4.9363	29.3155	40.3504	10.7566	0.1409	10.8974	2.8974	0.1327	3.0279
	Total	6.8372	46.7476	56.9256	10.7566	1.0995	11.856	2.8974	1.034	3.9292
Construction Totals	Maximum	6.8372	46.7476	56.9256	10.7566	1.0995	11.856	2.8974	1.034	3.9292

Phase 2 Construction

Year 1 -2023

Phase		ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)
Site Prep	Unmitigated On-site	2.6595	27.5242	18.2443	18.0663	1.266	19.3323	9.9307	1.1647	11.0954
	Unmitigated Off-site	0.0824	0.0427	0.6547	0.2053	1.26E-03	0.2066	0.0545	1.16E-03	0.0556
	Total	2.7419	27.5669	18.899	18.2716	1.26726	19.5389	9.9852	1.16586	11.151
Grading	Unmitigated On-site	3.3217	34.5156	28.0512	19.4957	1.4245	20.9202	4.7651	1.3105	6.0756
	Unmitigated Off-site	0.0916	0.0475	0.7275	0.2281	1.40E-03	0.2295	0.0605	1.29E-03	0.0618
	Total	3.4133	34.5631	28.7787	19.7238	1.4259	21.1497	4.8256	1.31179	6.1374
Building	Unmitigated On-site	1.5728	14.3849	16.244		0.6997	0.6997		0.6584	0.6584
	Unmitigated Off-site	2.48	12.4422	20.0977	6.3437	0.0509	6.3947	1.7049	0.0475	1.7525
	Total	4.0528	26.8271	36.3417	6.3437	0.7506	7.0944	1.7049	0.7059	2.4109
Construction Totals	Maximum	10.208	88.9571	84.0194	44.3391	3.44376	47.783	16.5157	3.18355	19.6993

Phase 2 Construction

Year 2 -2024

Phase		ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)
Building	Unmitigated On-site	1.4716	13.4438	16.1668		0.6133	0.6133		0.5769	0.5769
	Unmitigated Off-site	2.3373	12.1053	18.6867	6.3436	0.0494	6.393	1.7049	0.0461	1.751
	Total	3.8089	25.5491	34.8535	6.3436	0.6627	7.0063	1.7049	0.623	2.3279
Construction Totals	Maximum	3.8089	25.5491	34.8535	6.3436	0.6627	7.0063	1.7049	0.623	2.3279

Phase 2 Construction

Year 3 -2025

Phase	ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)	
Building										
Unmitigated On-site	1.3674	12.4697	16.0847		0.5276	0.5276		0.4963	0.4963	
Unmitigated Off-site	2.2135	11.7938	17.4047	6.3436	0.0479	6.3915	1.7049	0.0447	1.7496	
Total	3.5809	24.2635	33.4894	6.3436	0.5755	6.9191	1.7049	0.541	2.2459	
Paving										
Unmitigated On-site	0.9152	8.5816	14.578		0.4185	0.4185		0.385	0.385	
Unmitigated Off-site	0.061	0.0293	0.4701	0.1711	1.01E-03	0.1721	0.0454	9.30E-04	0.0463	
Total	0.9762	8.6109	15.0481	0.1711	0.41951	0.5906	0.0454	0.38593	0.4313	
Arch Coating										
Unmitigated On-site	410.7047	1.1455	1.8091		0.0515	0.0515		0.0515	0.0515	
Unmitigated Off-site	0.3825	0.1835	2.9461	1.0721	6.33E-03	1.0785	0.2843	5.82E-03	0.2902	
Adjusted ROG	36.0459									
Total	36.4284	1.329	4.7552	1.0721	0.05783	1.13	0.2843	0.05732	0.3417	
Construction Totals										
Maximum	40.0093	25.5925	38.2446	7.4157	0.6333	8.0491	1.9892	0.5983	2.5876	

Building Days	611
Paving Days	43
Arch Coating Days	43
Adjusted Arch Coating D	494 based on 2/3 building days plus paving and arch coating

Phase 3 Construction

Year 1 -2026

Phase		ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)
Site Prep	Unmitigated On-site	2.4727	25.2339	17.9118	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305
	Unmitigated Off-site	0.0695	0.0321	0.5262	0.2053	1.18E-03	0.2065	0.0545	1.08E-03	0.0555
	Total	2.5422	25.266	18.438	18.2716	1.08798	19.3596	9.9852	1.00098	10.986
Grading	Unmitigated On-site	2.9012	27.9429	26.3311	19.4957	1.1309	20.6266	4.7651	1.0404	5.8055
	Unmitigated Off-site	0.0772	0.0357	0.5847	0.2281	1.31E-03	0.2294	0.0605	1.20E-03	0.0617
	Total	2.9784	27.9786	26.9158	19.7238	1.13221	20.856	4.8256	1.0416	5.8672
Building	Unmitigated On-site	1.3674	12.4697	16.0847		0.5276	0.5267		0.4963	0.4963
	Unmitigated Off-site	4.3534	25.6298	33.7898	13.1472	0.0974	13.2446	3.5372	0.0909	3.6281
	Total	5.7208	38.0995	49.8745	13.1472	0.625	13.7713	3.5372	0.5872	4.1244
Construction Totals	Maximum	11.2414	91.3441	95.2283	51.1426	2.84519	53.9869	18.348	2.62978	20.9776

Phase 3 Construction

Year 2 -2027

Phase		ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)
Building										
	Unmitigated On-site	1.3674	12.4697	16.0847		0.5276	0.5267		0.4963	0.4963
	Unmitigated Off-site	4.1342	25.0529	31.7427	13.1471	0.0972	13.2398	3.5371	0.0865	3.6237
	Total	5.5016	37.5226	47.8274	13.1471	0.6248	13.7665	3.5371	0.5828	4.12
Construction Totals	Maximum	5.5016	37.5226	47.8274	13.1471	0.6248	13.7665	3.5371	0.5828	4.12

Phase 4 Construction

Year 1 -2029

Phase		ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)
Site Prep	Unmitigated On-site	2.4727	25.2339	17.9118	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305
	Unmitigated Off-site	0.0577	0.0248	0.4328	0.2053	9.70E-04	0.2063	0.0545	8.90E-04	0.0553
	Total	2.5304	25.2587	18.3446	18.2716	1.08777	19.3594	9.9852	1.00079	10.9858
Grading	Unmitigated On-site	2.9012	27.9429	26.3311	16.0451	1.1309	17.176	4.3925	1.0404	5.4329
	Unmitigated Off-site	0.0641	0.0276	0.4808	0.2281	1.08E-03	0.2292	0.0605	9.90E-04	0.0615
	Total	2.9653	27.9705	26.8119	16.2732	1.13198	17.4052	4.453	1.04139	5.4944
Building	Unmitigated On-site	1.3674	12.4697	16.0847		0.5276	0.5267		0.4963	0.4963
	Unmitigated Off-site	2.4201	15.7102	18.6185	8.6659	0.054	8.7199	2.3311	0.0504	2.3815
	Total	3.7875	28.1799	34.7032	8.6659	0.5816	9.2466	2.3311	0.5467	2.8778
Construction Totals	Maximum	9.2832	81.4091	79.8597	43.2107	2.80135	46.0112	16.7693	2.58888	19.358

Phase 4 Construction

Year 2 -2030

Phase		ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)
Building	Unmitigated On-site	1.3091	7.9346	16.157		0.1481	0.1481		0.1481	0.1481
	Unmitigated Off-site	2.2671	15.4269	17.6224	8.6658	0.0507	8.7165	2.3311	0.0474	2.3784
	Total	3.5762	23.3615	33.7794	8.6658	0.1988	8.8646	2.3311	0.1955	2.5265
Construction Totals	Maximum	3.5762	23.3615	33.7794	8.6658	0.1988	8.8646	2.3311	0.1955	2.5265

Phase 4 Construction

Year 3 -2031

Phase		ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)
Building	Unmitigated On-site	1.3091	7.9346	16.157		0.1481	0.1481		0.1481	0.1481
	Unmitigated Off-site	2.1076	15.1676	16.6877	8.6657	0.0477	8.7134	2.3311	0.04455	2.3756
	Total	3.4167	23.1022	32.8447	8.6657	0.1958	8.8615	2.3311	0.19265	2.5237
Construction Totals	Maximum	3.4167	23.1022	32.8447	8.6657	0.1958	8.8615	2.3311	0.19265	2.5237

Phase 4 Construction

Year 4 -2032

Phase		ROG (lb/day)	NOx (lb/day)	CO (lb/day)	PM10 Fugitive (lb/day)	PM10 Exhaust (lb/day)	PM10 Total (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Total (lb/day)
Building	Unmitigated On-site	1.3091	7.9346	16.157		0.1481	0.1481		0.1481	0.1481
	Unmitigated Off-site	1.9651	14.932	15.8712	8.6657	0.045	8.7106	2.331	0.042	2.373
	Total	3.2742	22.8666	32.0282	8.6657	0.1931	8.8587	2.331	0.1901	2.5211
Paving	Unmitigated On-site	1.3845	7.1202	15.8495		0.3306	0.3306		0.3306	0.3306
	Unmitigated Off-site	0.0379	0.0161	0.3003	0.1711	6.50E-04	0.1717	0.0454	6.00E-04	0.046
	Total	1.4224	7.1363	16.1498	0.1711	0.33125	0.5023	0.0454	0.3312	0.3766
Arch Coating	Unmitigated On-site	342.7563	0.8563	1.7977		0.0203	0.0203		0.0203	0.0203
	Unmitigated Off-site	0.3182	0.1382	2.5225	1.4371	5.45E-03	1.4426	0.3811	5.02E-03	0.3861
	Adjusted ROG	30.0823								
	Total	30.4005	0.9945	4.3202	1.4371	0.02575	1.4629	0.3811	0.02532	0.4064
Construction Totals	Maximum	33.6747	23.8611	36.3484	10.1028	0.2189	10.3216	2.7121	0.2154	2.9275

Building Days	816
Paving Days	58
Arch Coating Days	58
Adjusted Arch Coating D	660 based on 2/3 building days plus paving and arch coating

Mather South Construction Phase 1 - Sacramento County, Annual

**Mather South Construction Phase 1
Sacramento County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	165.00	1000sqft	13.56	165,000.00	0
Research & Development	110.00	1000sqft	9.16	110,000.00	0
Elementary School	750.00	Student	12.21	62,702.53	0
City Park	11.58	Acre	11.58	504,424.80	0
Health Club	15.00	1000sqft	5.80	15,000.00	0
Apartments Low Rise	94.00	Dwelling Unit	9.39	94,000.00	251
Apartments Mid Rise	200.00	Dwelling Unit	5.00	200,000.00	534
Single Family Housing	646.00	Dwelling Unit	100.72	1,162,800.00	1725

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Mather South Construction Phase 1 - Sacramento County, Annual

Project Characteristics -

Land Use - See Appendix for construction phasing assumptions

Construction Phase - Construction phasing adjusted proportionally to CalEEMod defaults - see Appendix for details

Vehicle Trips - Construction only

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	120.00	32.00
tblConstructionPhase	NumDays	310.00	82.00
tblConstructionPhase	NumDays	3,100.00	815.00
tblConstructionPhase	NumDays	220.00	58.00
tblConstructionPhase	NumDays	220.00	58.00
tblGrading	AcresOfGrading	205.00	775.00
tblLandUse	LotAcreage	3.79	13.56
tblLandUse	LotAcreage	2.53	9.16
tblLandUse	LotAcreage	1.44	12.21
tblLandUse	LotAcreage	0.34	5.80
tblLandUse	LotAcreage	5.88	9.39
tblLandUse	LotAcreage	5.26	5.00
tblLandUse	LotAcreage	209.74	100.72
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.8551	7.2393	6.2405	0.0170	1.7233	0.2551	1.9784	0.5485	0.2373	0.7859	0.0000	1,561.9079	1,561.9079	0.1788	0.0000	1,566.3774
2020	0.9312	6.8967	7.2794	0.0241	1.3620	0.1774	1.5394	0.3677	0.1671	0.5348	0.0000	2,217.4800	2,217.4800	0.1505	0.0000	2,221.2432
2021	0.8375	6.2149	6.7395	0.0236	1.3568	0.1437	1.5005	0.3663	0.1352	0.5015	0.0000	2,167.8525	2,167.8525	0.1442	0.0000	2,171.4576
2022	11.2396	3.5693	4.1642	0.0141	0.8080	0.0873	0.8953	0.2179	0.0819	0.2999	0.0000	1,290.8827	1,290.8827	0.0981	0.0000	1,293.3344
Maximum	11.2396	7.2393	7.2794	0.0241	1.7233	0.2551	1.9784	0.5485	0.2373	0.7859	0.0000	2,217.4800	2,217.4800	0.1788	0.0000	2,221.2432

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.8551	7.2393	6.2405	0.0170	1.7233	0.2551	1.9784	0.5485	0.2373	0.7859	0.0000	1,561.9074	1,561.9074	0.1788	0.0000	1,566.3768
2020	0.9312	6.8967	7.2794	0.0241	1.3620	0.1774	1.5394	0.3677	0.1671	0.5348	0.0000	2,217.4796	2,217.4796	0.1505	0.0000	2,221.2429
2021	0.8375	6.2149	6.7395	0.0236	1.3568	0.1437	1.5005	0.3663	0.1352	0.5015	0.0000	2,167.8522	2,167.8522	0.1442	0.0000	2,171.4572
2022	11.2396	3.5693	4.1642	0.0141	0.8080	0.0873	0.8953	0.2179	0.0819	0.2999	0.0000	1,290.8825	1,290.8825	0.0981	0.0000	1,293.3341
Maximum	11.2396	7.2393	7.2794	0.0241	1.7233	0.2551	1.9784	0.5485	0.2373	0.7859	0.0000	2,217.4796	2,217.4796	0.1788	0.0000	2,221.2429

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2019	3-31-2019	1.7642	1.7642
2	4-1-2019	6-30-2019	1.9802	1.9802
3	7-1-2019	9-30-2019	2.1453	2.1453
4	10-1-2019	12-31-2019	2.2002	2.2002
5	1-1-2020	3-31-2020	1.9671	1.9671
6	4-1-2020	6-30-2020	1.9224	1.9224
7	7-1-2020	9-30-2020	1.9435	1.9435
8	10-1-2020	12-31-2020	1.9887	1.9887

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9	1-1-2021	3-31-2021	1.7587	1.7587
10	4-1-2021	6-30-2021	1.7415	1.7415
11	7-1-2021	9-30-2021	1.7606	1.7606
12	10-1-2021	12-31-2021	1.7978	1.7978
13	1-1-2022	3-31-2022	1.6251	1.6251
14	4-1-2022	6-30-2022	1.6105	1.6105
15	7-1-2022	9-30-2022	0.6979	0.6979
		Highest	2.2002	2.2002

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	8.4401	0.1119	9.7095	5.1000e-004		0.0537	0.0537		0.0537	0.0537	0.0000	15.8609	15.8609	0.0153	0.0000	16.2433
Energy	0.1476	1.2835	0.7005	8.0500e-003		0.1020	0.1020		0.1020	0.1020	0.0000	4,531.1479	4,531.1479	0.1788	0.0580	4,552.8991
Mobile	3.4191	14.8108	45.6317	0.1597	14.6175	0.1225	14.7400	3.9182	0.1142	4.0324	0.0000	14,699.1279	14,699.1279	0.6355	0.0000	14,715.0142
Waste						0.0000	0.0000		0.0000	0.0000	231.7000	0.0000	231.7000	13.6931	0.0000	574.0269
Water						0.0000	0.0000		0.0000	0.0000	52.1371	267.4530	319.5901	0.1926	0.1161	359.0025
Total	12.0069	16.2062	56.0417	0.1683	14.6175	0.2781	14.8957	3.9182	0.2699	4.1881	283.8371	19,513.5897	19,797.4268	14.7153	0.1741	20,217.1859

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.4401	0.1119	9.7095	5.1000e-004		0.0537	0.0537		0.0537	0.0537	0.0000	15.8609	15.8609	0.0153	0.0000	16.2433
Energy	0.1476	1.2835	0.7005	8.0500e-003		0.1020	0.1020		0.1020	0.1020	0.0000	4,531.1479	4,531.1479	0.1788	0.0580	4,552.8991
Mobile	3.4191	14.8108	45.6317	0.1597	14.6175	0.1225	14.7400	3.9182	0.1142	4.0324	0.0000	14,699.1279	14,699.1279	0.6355	0.0000	14,715.0142
Waste						0.0000	0.0000		0.0000	0.0000	231.7000	0.0000	231.7000	13.6931	0.0000	574.0269
Water						0.0000	0.0000		0.0000	0.0000	52.1371	267.4530	319.5901	0.1926	0.1161	359.0025
Total	12.0069	16.2062	56.0417	0.1683	14.6175	0.2781	14.8957	3.9182	0.2699	4.1881	283.8371	19,513.5897	19,797.4268	14.7153	0.1741	20,217.1859

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2019	2/13/2019	5	32	
2	Grading	Grading	2/14/2019	6/7/2019	5	82	
3	Building Construction	Building Construction	6/8/2019	7/22/2022	5	815	
4	Paving	Paving	7/23/2022	10/12/2022	5	58	
5	Architectural Coating	Architectural Coating	10/11/2022	12/29/2022	5	58	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 2,950,020; Residential Outdoor: 983,340; Non-Residential Indoor: 529,054; Non-Residential Outdoor: 176,351; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	777.00	241.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	155.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2891	0.0000	0.2891	0.1589	0.0000	0.1589	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0694	0.7292	0.3530	6.1000e-004		0.0383	0.0383		0.0352	0.0352	0.0000	54.6699	54.6699	0.0173	0.0000	55.1023
Total	0.0694	0.7292	0.3530	6.1000e-004	0.2891	0.0383	0.3273	0.1589	0.0352	0.1941	0.0000	54.6699	54.6699	0.0173	0.0000	55.1023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5700e-003	1.1700e-003	0.0124	3.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	2.0000e-005	8.6000e-004	0.0000	2.8699	2.8699	9.0000e-005	0.0000	2.8721
Total	1.5700e-003	1.1700e-003	0.0124	3.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	2.0000e-005	8.6000e-004	0.0000	2.8699	2.8699	9.0000e-005	0.0000	2.8721

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3.2 Site Preparation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2891	0.0000	0.2891	0.1589	0.0000	0.1589	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0694	0.7292	0.3530	6.1000e-004		0.0383	0.0383		0.0352	0.0352	0.0000	54.6698	54.6698	0.0173	0.0000	55.1023
Total	0.0694	0.7292	0.3530	6.1000e-004	0.2891	0.0383	0.3273	0.1589	0.0352	0.1941	0.0000	54.6698	54.6698	0.0173	0.0000	55.1023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5700e-003	1.1700e-003	0.0124	3.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	2.0000e-005	8.6000e-004	0.0000	2.8699	2.8699	9.0000e-005	0.0000	2.8721
Total	1.5700e-003	1.1700e-003	0.0124	3.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	2.0000e-005	8.6000e-004	0.0000	2.8699	2.8699	9.0000e-005	0.0000	2.8721

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3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6579	0.0000	0.6579	0.1801	0.0000	0.1801	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1943	2.2353	1.3685	2.5400e-003		0.0977	0.0977		0.0899	0.0899	0.0000	228.3754	228.3754	0.0723	0.0000	230.1818
Total	0.1943	2.2353	1.3685	2.5400e-003	0.6579	0.0977	0.7555	0.1801	0.0899	0.2700	0.0000	228.3754	228.3754	0.0723	0.0000	230.1818

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4700e-003	3.3200e-003	0.0353	9.0000e-005	9.0300e-003	6.0000e-005	9.0900e-003	2.4000e-003	6.0000e-005	2.4600e-003	0.0000	8.1713	8.1713	2.4000e-004	0.0000	8.1774
Total	4.4700e-003	3.3200e-003	0.0353	9.0000e-005	9.0300e-003	6.0000e-005	9.0900e-003	2.4000e-003	6.0000e-005	2.4600e-003	0.0000	8.1713	8.1713	2.4000e-004	0.0000	8.1774

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3.3 Grading - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6579	0.0000	0.6579	0.1801	0.0000	0.1801	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1943	2.2353	1.3685	2.5400e-003		0.0977	0.0977		0.0899	0.0899	0.0000	228.3751	228.3751	0.0723	0.0000	230.1815
Total	0.1943	2.2353	1.3685	2.5400e-003	0.6579	0.0977	0.7555	0.1801	0.0899	0.2700	0.0000	228.3751	228.3751	0.0723	0.0000	230.1815

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4700e-003	3.3200e-003	0.0353	9.0000e-005	9.0300e-003	6.0000e-005	9.0900e-003	2.4000e-003	6.0000e-005	2.4600e-003	0.0000	8.1713	8.1713	2.4000e-004	0.0000	8.1774
Total	4.4700e-003	3.3200e-003	0.0353	9.0000e-005	9.0300e-003	6.0000e-005	9.0900e-003	2.4000e-003	6.0000e-005	2.4600e-003	0.0000	8.1713	8.1713	2.4000e-004	0.0000	8.1774

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3.4 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	0.1736	1.5493	1.2615	1.9800e-003		0.0948	0.0948		0.0891	0.0891	0.0000	172.8016	172.8016	0.0421	0.0000	173.8540
Total	0.1736	1.5493	1.2615	1.9800e-003		0.0948	0.0948		0.0891	0.0891	0.0000	172.8016	172.8016	0.0421	0.0000	173.8540

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1006	2.4896	0.7548	5.4800e-003	0.1353	0.0198	0.1551	0.0391	0.0189	0.0580	0.0000	525.9251	525.9251	0.0298	0.0000	526.6687
Worker	0.3113	0.2314	2.4551	6.3000e-003	0.6289	4.4500e-003	0.6333	0.1672	4.1100e-003	0.1713	0.0000	569.0948	569.0948	0.0171	0.0000	569.5211
Total	0.4118	2.7211	3.2099	0.0118	0.7642	0.0243	0.7884	0.2063	0.0231	0.2294	0.0000	1,095.0198	1,095.0198	0.0468	0.0000	1,096.1898

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3.4 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1736	1.5493	1.2615	1.9800e-003		0.0948	0.0948		0.0891	0.0891	0.0000	172.8014	172.8014	0.0421	0.0000	173.8538
Total	0.1736	1.5493	1.2615	1.9800e-003		0.0948	0.0948		0.0891	0.0891	0.0000	172.8014	172.8014	0.0421	0.0000	173.8538

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1006	2.4896	0.7548	5.4800e-003	0.1353	0.0198	0.1551	0.0391	0.0189	0.0580	0.0000	525.9251	525.9251	0.0298	0.0000	526.6687
Worker	0.3113	0.2314	2.4551	6.3000e-003	0.6289	4.4500e-003	0.6333	0.1672	4.1100e-003	0.1713	0.0000	569.0948	569.0948	0.0171	0.0000	569.5211
Total	0.4118	2.7211	3.2099	0.0118	0.7642	0.0243	0.7884	0.2063	0.0231	0.2294	0.0000	1,095.0198	1,095.0198	0.0468	0.0000	1,096.1898

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Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1422	4.0166	1.1218	9.6900e-003	0.2412	0.0234	0.2645	0.0697	0.0223	0.0920	0.0000	930.9832	930.9832	0.0497	0.0000	932.2260
Worker	0.5112	0.3667	3.9505	0.0109	1.1208	7.7500e-003	1.1286	0.2980	7.1400e-003	0.3052	0.0000	983.0877	983.0877	0.0268	0.0000	983.7576
Total	0.6535	4.3833	5.0722	0.0206	1.3620	0.0311	1.3931	0.3677	0.0295	0.3972	0.0000	1,914.0709	1,914.0709	0.0765	0.0000	1,915.9836

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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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1422	4.0166	1.1218	9.6900e-003	0.2412	0.0234	0.2645	0.0697	0.0223	0.0920	0.0000	930.9832	930.9832	0.0497	0.0000	932.2260
Worker	0.5112	0.3667	3.9505	0.0109	1.1208	7.7500e-003	1.1286	0.2980	7.1400e-003	0.3052	0.0000	983.0877	983.0877	0.0268	0.0000	983.7576
Total	0.6535	4.3833	5.0722	0.0206	1.3620	0.0311	1.3931	0.3677	0.0295	0.3972	0.0000	1,914.0709	1,914.0709	0.0765	0.0000	1,915.9836

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Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
Total	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1150	3.6123	0.9741	9.5700e-003	0.2402	0.0111	0.2513	0.0694	0.0106	0.0800	0.0000	919.6154	919.6154	0.0473	0.0000	920.7983
Worker	0.4744	0.3277	3.6024	0.0105	1.1166	7.4900e-003	1.1241	0.2969	6.9000e-003	0.3038	0.0000	945.9505	945.9505	0.0240	0.0000	946.5495
Total	0.5894	3.9400	4.5765	0.0200	1.3568	0.0186	1.3754	0.3663	0.0175	0.3838	0.0000	1,865.5659	1,865.5659	0.0713	0.0000	1,867.3478

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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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
Total	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1150	3.6123	0.9741	9.5700e-003	0.2402	0.0111	0.2513	0.0694	0.0106	0.0800	0.0000	919.6154	919.6154	0.0473	0.0000	920.7983
Worker	0.4744	0.3277	3.6024	0.0105	1.1166	7.4900e-003	1.1241	0.2969	6.9000e-003	0.3038	0.0000	945.9505	945.9505	0.0240	0.0000	946.5495
Total	0.5894	3.9400	4.5765	0.0200	1.3568	0.0186	1.3754	0.3663	0.0175	0.3838	0.0000	1,865.5659	1,865.5659	0.0713	0.0000	1,867.3478

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Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1237	1.1321	1.1864	1.9500e-003		0.0587	0.0587		0.0552	0.0552	0.0000	168.0008	168.0008	0.0403	0.0000	169.0070
Total	0.1237	1.1321	1.1864	1.9500e-003		0.0587	0.0587		0.0552	0.0552	0.0000	168.0008	168.0008	0.0403	0.0000	169.0070

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0594	1.8956	0.4999	5.2700e-003	0.1334	5.4100e-003	0.1388	0.0385	5.1700e-003	0.0437	0.0000	506.3684	506.3684	0.0255	0.0000	507.0067
Worker	0.2467	0.1638	1.8414	5.6000e-003	0.6203	4.0500e-003	0.6244	0.1650	3.7300e-003	0.1687	0.0000	506.6860	506.6860	0.0120	0.0000	506.9853
Total	0.3061	2.0594	2.3412	0.0109	0.7537	9.4600e-003	0.7632	0.2035	8.9000e-003	0.2124	0.0000	1,013.0544	1,013.0544	0.0375	0.0000	1,013.9920

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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	0.1237	1.1321	1.1864	1.9500e-003		0.0587	0.0587		0.0552	0.0552	0.0000	168.0006	168.0006	0.0403	0.0000	169.0068
Total	0.1237	1.1321	1.1864	1.9500e-003		0.0587	0.0587		0.0552	0.0552	0.0000	168.0006	168.0006	0.0403	0.0000	169.0068

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0594	1.8956	0.4999	5.2700e-003	0.1334	5.4100e-003	0.1388	0.0385	5.1700e-003	0.0437	0.0000	506.3684	506.3684	0.0255	0.0000	507.0067
Worker	0.2467	0.1638	1.8414	5.6000e-003	0.6203	4.0500e-003	0.6244	0.1650	3.7300e-003	0.1687	0.0000	506.6860	506.6860	0.0120	0.0000	506.9853
Total	0.3061	2.0594	2.3412	0.0109	0.7537	9.4600e-003	0.7632	0.2035	8.9000e-003	0.2124	0.0000	1,013.0544	1,013.0544	0.0375	0.0000	1,013.9920

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3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0320	0.3226	0.4228	6.6000e-004		0.0165	0.0165		0.0152	0.0152	0.0000	58.0799	58.0799	0.0188	0.0000	58.5495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0320	0.3226	0.4228	6.6000e-004		0.0165	0.0165		0.0152	0.0152	0.0000	58.0799	58.0799	0.0188	0.0000	58.5495

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9100e-003	1.2700e-003	0.0142	4.0000e-005	4.7900e-003	3.0000e-005	4.8200e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	3.9126	3.9126	9.0000e-005	0.0000	3.9149
Total	1.9100e-003	1.2700e-003	0.0142	4.0000e-005	4.7900e-003	3.0000e-005	4.8200e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	3.9126	3.9126	9.0000e-005	0.0000	3.9149

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3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0320	0.3226	0.4228	6.6000e-004		0.0165	0.0165		0.0152	0.0152	0.0000	58.0799	58.0799	0.0188	0.0000	58.5495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0320	0.3226	0.4228	6.6000e-004		0.0165	0.0165		0.0152	0.0152	0.0000	58.0799	58.0799	0.0188	0.0000	58.5495

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9100e-003	1.2700e-003	0.0142	4.0000e-005	4.7900e-003	3.0000e-005	4.8200e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	3.9126	3.9126	9.0000e-005	0.0000	3.9149
Total	1.9100e-003	1.2700e-003	0.0142	4.0000e-005	4.7900e-003	3.0000e-005	4.8200e-003	1.2700e-003	3.0000e-005	1.3000e-003	0.0000	3.9126	3.9126	9.0000e-005	0.0000	3.9149

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3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	10.7503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9300e-003	0.0409	0.0526	9.0000e-005		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	7.4044	7.4044	4.8000e-004	0.0000	7.4165
Total	10.7563	0.0409	0.0526	9.0000e-005		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	7.4044	7.4044	4.8000e-004	0.0000	7.4165

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0197	0.0131	0.1469	4.5000e-004	0.0495	3.2000e-004	0.0498	0.0132	3.0000e-004	0.0135	0.0000	40.4305	40.4305	9.6000e-004	0.0000	40.4544
Total	0.0197	0.0131	0.1469	4.5000e-004	0.0495	3.2000e-004	0.0498	0.0132	3.0000e-004	0.0135	0.0000	40.4305	40.4305	9.6000e-004	0.0000	40.4544

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3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	10.7503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9300e-003	0.0409	0.0526	9.0000e-005		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	7.4044	7.4044	4.8000e-004	0.0000	7.4165
Total	10.7563	0.0409	0.0526	9.0000e-005		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	7.4044	7.4044	4.8000e-004	0.0000	7.4165

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0197	0.0131	0.1469	4.5000e-004	0.0495	3.2000e-004	0.0498	0.0132	3.0000e-004	0.0135	0.0000	40.4305	40.4305	9.6000e-004	0.0000	40.4544
Total	0.0197	0.0131	0.1469	4.5000e-004	0.0495	3.2000e-004	0.0498	0.0132	3.0000e-004	0.0135	0.0000	40.4305	40.4305	9.6000e-004	0.0000	40.4544

4.0 Operational Detail - Mobile

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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	3.4191	14.8108	45.6317	0.1597	14.6175	0.1225	14.7400	3.9182	0.1142	4.0324	0.0000	14,699.1279	14,699.1279	0.6355	0.0000	14,715.0142
Unmitigated	3.4191	14.8108	45.6317	0.1597	14.6175	0.1225	14.7400	3.9182	0.1142	4.0324	0.0000	14,699.1279	14,699.1279	0.6355	0.0000	14,715.0142

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	619.46	673.04	570.58	2,283,978	2,283,978
Apartments Mid Rise	1,330.00	1,278.00	1172.00	4,787,971	4,787,971
City Park	21.89	263.45	193.85	218,855	218,855
Elementary School	967.50	0.00	0.00	2,167,433	2,167,433
General Office Building	1,819.95	405.90	173.25	4,184,403	4,184,403
Health Club	493.95	313.05	400.95	917,217	917,217
Research & Development	892.10	209.00	122.10	2,172,575	2,172,575
Single Family Housing	6,149.92	6,401.86	5568.52	22,477,144	22,477,144
Total	12,294.77	9,544.30	8,201.25	39,209,577	39,209,577

4.3 Trip Type Information

Mather South Construction Phase 1 - Sacramento County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
City Park	15.00	7.50	8.50	33.00	48.00	19.00	66	28	6
Elementary School	15.00	7.50	8.50	65.00	30.00	5.00	63	25	12
General Office Building	15.00	7.50	8.50	33.00	48.00	19.00	77	19	4
Health Club	15.00	7.50	8.50	16.90	64.10	19.00	52	39	9
Research & Development	15.00	7.50	8.50	33.00	48.00	19.00	82	15	3
Single Family Housing	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
Apartments Mid Rise	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
City Park	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
Elementary School	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
General Office Building	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
Health Club	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
Research & Development	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
Single Family Housing	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mather South Construction Phase 1 - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	3,070.5431	3,070.5431	0.1509	0.0312	3,083.6147
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	3,070.5431	3,070.5431	0.1509	0.0312	3,083.6147
NaturalGas Mitigated	0.1476	1.2835	0.7005	8.0500e-003			0.1020	0.1020		0.1020	0.1020	1,460.6048	1,460.6048	0.0280	0.0268	1,469.2844
NaturalGas Unmitigated	0.1476	1.2835	0.7005	8.0500e-003			0.1020	0.1020		0.1020	0.1020	1,460.6048	1,460.6048	0.0280	0.0268	1,469.2844

Mather South Construction Phase 1 - Sacramento County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.13728e+006	6.1300e-003	0.0524	0.0223	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6896	60.6896	1.1600e-003	1.1100e-003	61.0502
Apartments Mid Rise	1.94962e+006	0.0105	0.0898	0.0382	5.7000e-004		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003	0.0000	104.0392	104.0392	1.9900e-003	1.9100e-003	104.6574
City Park	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
Elementary School	956841	5.1600e-003	0.0469	0.0394	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	51.0607	51.0607	9.8000e-004	9.4000e-004	51.3641
General Office Building	2.1615e+006	0.0117	0.1060	0.0890	6.4000e-004		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003	0.0000	115.3459	115.3459	2.2100e-003	2.1100e-003	116.0313
Health Club	537150	2.9000e-003	0.0263	0.0221	1.6000e-004		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	28.6644	28.6644	5.5000e-004	5.3000e-004	28.8347
Research & Development	3.9391e+006	0.0212	0.1931	0.1622	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	210.2054	210.2054	4.0300e-003	3.8500e-003	211.4545
Single Family Housing	1.66892e+007	0.0900	0.7690	0.3272	4.9100e-003		0.0622	0.0622		0.0622	0.0622	0.0000	890.5998	890.5998	0.0171	0.0163	895.8922
Total		0.1476	1.2835	0.7005	8.0500e-003		0.1020	0.1020		0.1020	0.1020	0.0000	1,460.6048	1,460.6048	0.0280	0.0268	1,469.2844

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.13728e+006	6.1300e-003	0.0524	0.0223	3.3000e-004		4.2400e-003	4.2400e-003		4.2400e-003	4.2400e-003	0.0000	60.6896	60.6896	1.1600e-003	1.1100e-003	61.0502
Apartments Mid Rise	1.94962e+006	0.0105	0.0898	0.0382	5.7000e-004		7.2600e-003	7.2600e-003		7.2600e-003	7.2600e-003	0.0000	104.0392	104.0392	1.9900e-003	1.9100e-003	104.6574
City Park	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
Elementary School	956841	5.1600e-003	0.0469	0.0394	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	51.0607	51.0607	9.8000e-004	9.4000e-004	51.3641
General Office Building	2.1615e+006	0.0117	0.1060	0.0890	6.4000e-004		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003	0.0000	115.3459	115.3459	2.2100e-003	2.1100e-003	116.0313
Health Club	537150	2.9000e-003	0.0263	0.0221	1.6000e-004		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	28.6644	28.6644	5.5000e-004	5.3000e-004	28.8347
Research & Development	3.9391e+006	0.0212	0.1931	0.1622	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	210.2054	210.2054	4.0300e-003	3.8500e-003	211.4545
Single Family Housing	1.66892e+007	0.0900	0.7690	0.3272	4.9100e-003		0.0622	0.0622		0.0622	0.0622	0.0000	890.5998	890.5998	0.0171	0.0163	895.8922
Total		0.1476	1.2835	0.7005	8.0500e-003		0.1020	0.1020		0.1020	0.1020	0.0000	1,460.6048	1,460.6048	0.0280	0.0268	1,469.2844

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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			
Apartments Low Rise	422459	113.1176	5.5600e-003	1.1500e-003	113.5991
Apartments Mid Rise	851292	227.9420	0.0112	2.3200e-003	228.9124
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	458983	122.8972	6.0400e-003	1.2500e-003	123.4204
General Office Building	2.3826e+006	637.9652	0.0313	6.4800e-003	640.6811
Health Club	227700	60.9690	3.0000e-003	6.2000e-004	61.2285
Research & Development	1.6698e+006	447.1058	0.0220	4.5400e-003	449.0092
Single Family Housing	5.45468e+006	1,460.5462	0.0718	0.0149	1,466.7639
Total		3,070.5431	0.1509	0.0312	3,083.6147

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	422459	113.1176	5.5600e-003	1.1500e-003	113.5991
Apartments Mid Rise	851292	227.9420	0.0112	2.3200e-003	228.9124
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	458983	122.8972	6.0400e-003	1.2500e-003	123.4204
General Office Building	2.3826e+006	637.9652	0.0313	6.4800e-003	640.6811
Health Club	227700	60.9690	3.0000e-003	6.2000e-004	61.2285
Research & Development	1.6698e+006	447.1058	0.0220	4.5400e-003	449.0092
Single Family Housing	5.45468e+006	1,460.5462	0.0718	0.0149	1,466.7639
Total		3,070.5431	0.1509	0.0312	3,083.6147

6.0 Area Detail

6.1 Mitigation Measures Area

Mather South Construction Phase 1 - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.4401	0.1119	9.7095	5.1000e-004		0.0537	0.0537		0.0537	0.0537	0.0000	15.8609	15.8609	0.0153	0.0000	16.2433
Unmitigated	8.4401	0.1119	9.7095	5.1000e-004		0.0537	0.0537		0.0537	0.0537	0.0000	15.8609	15.8609	0.0153	0.0000	16.2433

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	1.0750					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2934	0.1119	9.7095	5.1000e-004		0.0537	0.0537		0.0537	0.0537	0.0000	15.8609	15.8609	0.0153	0.0000	16.2433
Total	8.4401	0.1119	9.7095	5.1000e-004		0.0537	0.0537		0.0537	0.0537	0.0000	15.8609	15.8609	0.0153	0.0000	16.2433

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0750					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2934	0.1119	9.7095	5.1000e-004		0.0537	0.0537		0.0537	0.0537	0.0000	15.8609	15.8609	0.0153	0.0000	16.2433
Total	8.4401	0.1119	9.7095	5.1000e-004		0.0537	0.0537		0.0537	0.0537	0.0000	15.8609	15.8609	0.0153	0.0000	16.2433

7.0 Water Detail

7.1 Mitigation Measures Water

Mather South Construction Phase 1 - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	319.5901	0.1926	0.1161	359.0025
Unmitigated	319.5901	0.1926	0.1161	359.0025

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	6.12448 / 3.86108	13.9562	8.0400e-003	4.8300e-003	15.5971
Apartments Mid Rise	13.0308 / 8.21507	29.6941	0.0171	0.0103	33.1853
City Park	0 / 13.7974	12.9303	6.4000e-004	1.3000e-004	12.9854
Elementary School	1.81818 / 4.67532	7.4505	2.5500e-003	1.4700e-003	7.9517
General Office Building	29.3261 / 17.974	66.3453	0.0385	0.0231	74.2003
Health Club	0.887147 / 0.543735	2.0070	1.1600e-003	7.0000e-004	2.2446
Research & Development	54.0863 / 0	91.2947	0.0694	0.0424	105.6495
Single Family Housing	42.0895 / 26.5347	95.9119	0.0552	0.0332	107.1886
Total		319.5901	0.1926	0.1161	359.0025

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	6.12448 / 3.86108	13.9562	8.0400e-003	4.8300e-003	15.5971
Apartments Mid Rise	13.0308 / 8.21507	29.6941	0.0171	0.0103	33.1853
City Park	0 / 13.7974	12.9303	6.4000e-004	1.3000e-004	12.9854
Elementary School	1.81818 / 4.67532	7.4505	2.5500e-003	1.4700e-003	7.9517
General Office Building	29.3261 / 17.974	66.3453	0.0385	0.0231	74.2003
Health Club	0.887147 / 0.543735	2.0070	1.1600e-003	7.0000e-004	2.2446
Research & Development	54.0863 / 0	91.2947	0.0694	0.0424	105.6495
Single Family Housing	42.0895 / 26.5347	95.9119	0.0552	0.0332	107.1886
Total		319.5901	0.1926	0.1161	359.0025

8.0 Waste Detail

8.1 Mitigation Measures Waste

Mather South Construction Phase 1 - Sacramento County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	231.7000	13.6931	0.0000	574.0269
Unmitigated	231.7000	13.6931	0.0000	574.0269

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	43.24	8.7773	0.5187	0.0000	21.7455
Apartments Mid Rise	92	18.6752	1.1037	0.0000	46.2669
City Park	1	0.2030	0.0120	0.0000	0.5029
Elementary School	136.88	27.7854	1.6421	0.0000	68.8372
General Office Building	153.45	31.1490	1.8409	0.0000	77.1702
Health Club	85.5	17.3557	1.0257	0.0000	42.9981
Research & Development	8.36	1.6970	0.1003	0.0000	4.2043
Single Family Housing	621	126.0574	7.4498	0.0000	312.3018
Total		231.7000	13.6931	0.0000	574.0269

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	43.24	8.7773	0.5187	0.0000	21.7455
Apartments Mid Rise	92	18.6752	1.1037	0.0000	46.2669
City Park	1	0.2030	0.0120	0.0000	0.5029
Elementary School	136.88	27.7854	1.6421	0.0000	68.8372
General Office Building	153.45	31.1490	1.8409	0.0000	77.1702
Health Club	85.5	17.3557	1.0257	0.0000	42.9981
Research & Development	8.36	1.6970	0.1003	0.0000	4.2043
Single Family Housing	621	126.0574	7.4498	0.0000	312.3018
Total		231.7000	13.6931	0.0000	574.0269

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Mather South Construction Phase 1 - Sacramento County, Annual

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

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

Equipment Type	Number
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11.0 Vegetation

Mather South Construction Phase 1 - Sacramento County, Summer

Mather South Construction Phase 1
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	165.00	1000sqft	13.56	165,000.00	0
Research & Development	110.00	1000sqft	9.16	110,000.00	0
Elementary School	750.00	Student	12.21	62,702.53	0
City Park	11.58	Acre	11.58	504,424.80	0
Health Club	15.00	1000sqft	5.80	15,000.00	0
Apartments Low Rise	94.00	Dwelling Unit	9.39	94,000.00	251
Apartments Mid Rise	200.00	Dwelling Unit	5.00	200,000.00	534
Single Family Housing	646.00	Dwelling Unit	100.72	1,162,800.00	1725

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Mather South Construction Phase 1 - Sacramento County, Summer

Project Characteristics -

Land Use - See Appendix for construction phasing assumptions

Construction Phase - Construction phasing adjusted proportionally to CalEEMod defaults - see Appendix for details

Vehicle Trips - Construction only

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	120.00	32.00
tblConstructionPhase	NumDays	310.00	82.00
tblConstructionPhase	NumDays	3,100.00	815.00
tblConstructionPhase	NumDays	220.00	58.00
tblConstructionPhase	NumDays	220.00	58.00
tblGrading	AcresOfGrading	205.00	775.00
tblLandUse	LotAcreage	3.79	13.56
tblLandUse	LotAcreage	2.53	9.16
tblLandUse	LotAcreage	1.44	12.21
tblLandUse	LotAcreage	0.34	5.80
tblLandUse	LotAcreage	5.88	9.39
tblLandUse	LotAcreage	5.26	5.00
tblLandUse	LotAcreage	209.74	100.72
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

Mather South Construction Phase 1 - Sacramento County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	8.4630	56.8300	67.1427	0.1971	18.2716	2.3918	20.6633	9.9851	2.2004	12.1856	0.0000	19,994.38 48	19,994.38 48	1.9501	0.0000	20,028.26 25
2020	7.5639	51.5869	61.2940	0.1935	10.7568	1.3525	12.1093	2.8953	1.2735	4.1688	0.0000	19,612.65 21	19,612.65 21	1.2851	0.0000	19,644.77 90
2021	6.8372	46.7476	56.9256	0.1897	10.7566	1.0995	11.8560	2.8952	1.0340	3.9292	0.0000	19,234.45 34	19,234.45 34	1.2335	0.0000	19,265.29 1
2022	372.8405	43.2399	53.5678	0.1858	10.7563	0.9379	11.6942	2.8951	0.8825	3.7776	0.0000	18,848.89 47	18,848.89 47	1.1951	0.0000	18,878.77 19
Maximum	372.8405	56.8300	67.1427	0.1971	18.2716	2.3918	20.6633	9.9851	2.2004	12.1856	0.0000	19,994.38 48	19,994.38 48	1.9501	0.0000	20,028.26 25

Mather South Construction Phase 1 - Sacramento County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	46.9868	0.8951	77.6758	4.1000e-003		0.4297	0.4297		0.4297	0.4297	0.0000	139.8693	139.8693	0.1349	0.0000	143.2414
Energy	0.8087	7.0331	3.8383	0.0441		0.5587	0.5587		0.5587	0.5587		8,822.1434	8,822.1434	0.1691	0.1617	8,874.5690
Mobile	26.4162	87.7507	323.4683	1.0683	93.3825	0.7548	94.1373	24.9592	0.7037	25.6629		108,214.3584	108,214.3584	4.4772		108,326.2890
Total	74.2116	95.6789	404.9824	1.1165	93.3825	1.7433	95.1258	24.9592	1.6922	26.6514	0.0000	117,176.3712	117,176.3712	4.7812	0.1617	117,344.0994

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	46.9868	0.8951	77.6758	4.1000e-003		0.4297	0.4297		0.4297	0.4297	0.0000	139.8693	139.8693	0.1349	0.0000	143.2414
Energy	0.8087	7.0331	3.8383	0.0441		0.5587	0.5587		0.5587	0.5587		8,822.1434	8,822.1434	0.1691	0.1617	8,874.5690
Mobile	26.4162	87.7507	323.4683	1.0683	93.3825	0.7548	94.1373	24.9592	0.7037	25.6629		108,214.3584	108,214.3584	4.4772		108,326.2890
Total	74.2116	95.6789	404.9824	1.1165	93.3825	1.7433	95.1258	24.9592	1.6922	26.6514	0.0000	117,176.3712	117,176.3712	4.7812	0.1617	117,344.0994

Mather South Construction Phase 1 - Sacramento County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2019	2/13/2019	5	32	
2	Grading	Grading	2/14/2019	6/7/2019	5	82	
3	Building Construction	Building Construction	6/8/2019	7/22/2022	5	815	
4	Paving	Paving	7/23/2022	10/12/2022	5	58	
5	Architectural Coating	Architectural Coating	10/11/2022	12/29/2022	5	58	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 2,950,020; Residential Outdoor: 983,340; Non-Residential Indoor: 529,054; Non-Residential Outdoor: 176,351; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Mather South Construction Phase 1 - Sacramento County, Summer

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	777.00	241.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	155.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT

Mather South Construction Phase 1 - Sacramento County, Summer

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.4529	3,766.4529	1.1917		3,796.2445

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1100	0.0660	0.9292	2.2000e-003	0.2053	1.4000e-003	0.2067	0.0545	1.2900e-003	0.0557		218.8673	218.8673	6.7100e-003		219.0352
Total	0.1100	0.0660	0.9292	2.2000e-003	0.2053	1.4000e-003	0.2067	0.0545	1.2900e-003	0.0557		218.8673	218.8673	6.7100e-003		219.0352

Mather South Construction Phase 1 - Sacramento County, Summer

3.2 Site Preparation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1100	0.0660	0.9292	2.2000e-003	0.2053	1.4000e-003	0.2067	0.0545	1.2900e-003	0.0557		218.8673	218.8673	6.7100e-003		219.0352
Total	0.1100	0.0660	0.9292	2.2000e-003	0.2053	1.4000e-003	0.2067	0.0545	1.2900e-003	0.0557		218.8673	218.8673	6.7100e-003		219.0352

Mather South Construction Phase 1 - Sacramento County, Summer

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					16.0451	0.0000	16.0451	4.3925	0.0000	4.3925			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	4.7389	54.5202	33.3768	0.0620	16.0451	2.3827	18.4278	4.3925	2.1920	6.5845		6,140.0195	6,140.0195	1.9426		6,188.5854

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1222	0.0733	1.0324	2.4400e-003	0.2281	1.5600e-003	0.2297	0.0605	1.4400e-003	0.0619		243.1859	243.1859	7.4600e-003		243.3724
Total	0.1222	0.0733	1.0324	2.4400e-003	0.2281	1.5600e-003	0.2297	0.0605	1.4400e-003	0.0619		243.1859	243.1859	7.4600e-003		243.3724

Mather South Construction Phase 1 - Sacramento County, Summer

3.3 Grading - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					16.0451	0.0000	16.0451	4.3925	0.0000	4.3925			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	4.7389	54.5202	33.3768	0.0620	16.0451	2.3827	18.4278	4.3925	2.1920	6.5845	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1222	0.0733	1.0324	2.4400e-003	0.2281	1.5600e-003	0.2297	0.0605	1.4400e-003	0.0619		243.1859	243.1859	7.4600e-003		243.3724
Total	0.1222	0.0733	1.0324	2.4400e-003	0.2281	1.5600e-003	0.2297	0.0605	1.4400e-003	0.0619		243.1859	243.1859	7.4600e-003		243.3724

Mather South Construction Phase 1 - Sacramento County, Summer

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.3542	32.9026	9.8707	0.0752	1.8949	0.2671	2.1620	0.5451	0.2555	0.8006		7,955.032 1	7,955.032 1	0.4340		7,965.881 8
Worker	4.7476	2.8486	40.1082	0.0950	8.8621	0.0606	8.9227	2.3503	0.0559	2.4062		9,447.772 6	9,447.772 6	0.2898		9,455.017 2
Total	6.1018	35.7512	49.9789	0.1702	10.7570	0.3277	11.0847	2.8954	0.3114	3.2067		17,402.80 47	17,402.80 47	0.7238		17,420.89 90

Mather South Construction Phase 1 - Sacramento County, Summer

3.4 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.3542	32.9026	9.8707	0.0752	1.8949	0.2671	2.1620	0.5451	0.2555	0.8006		7,955.032 1	7,955.032 1	0.4340		7,965.881 8
Worker	4.7476	2.8486	40.1082	0.0950	8.8621	0.0606	8.9227	2.3503	0.0559	2.4062		9,447.772 6	9,447.772 6	0.2898		9,455.017 2
Total	6.1018	35.7512	49.9789	0.1702	10.7570	0.3277	11.0847	2.8954	0.3114	3.2067		17,402.80 47	17,402.80 47	0.7238		17,420.89 90

Mather South Construction Phase 1 - Sacramento County, Summer

3.4 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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0725	29.8666	8.1530	0.0746	1.8947	0.1763	2.0710	0.5450	0.1686	0.7137		7,902.136 8	7,902.136 8	0.4064		7,912.296 3
Worker	4.3716	2.5343	36.2925	0.0920	8.8621	0.0591	8.9213	2.3503	0.0545	2.4048		9,157.452 2	9,157.452 2	0.2558		9,163.848 2
Total	5.4440	32.4009	44.4455	0.1666	10.7568	0.2354	10.9922	2.8953	0.2232	3.1184		17,059.58 91	17,059.58 91	0.6622		17,076.14 45

Mather South Construction Phase 1 - Sacramento County, Summer

3.4 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.0725	29.8666	8.1530	0.0746	1.8947	0.1763	2.0710	0.5450	0.1686	0.7137		7,902.136 8	7,902.136 8	0.4064		7,912.296 3
Worker	4.3716	2.5343	36.2925	0.0920	8.8621	0.0591	8.9213	2.3503	0.0545	2.4048		9,157.452 2	9,157.452 2	0.2558		9,163.848 2
Total	5.4440	32.4009	44.4455	0.1666	10.7568	0.2354	10.9922	2.8953	0.2232	3.1184		17,059.58 91	17,059.58 91	0.6622		17,076.14 45

Mather South Construction Phase 1 - Sacramento County, Summer

3.4 Building Construction - 2021

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8689	27.0413	7.0691	0.0740	1.8944	0.0835	1.9779	0.5449	0.0798	0.6248		7,835.9537	7,835.9537	0.3878		7,845.6495
Worker	4.0675	2.2742	33.2814	0.0888	8.8621	0.0574	8.9195	2.3503	0.0529	2.4032		8,845.1358	8,845.1358	0.2297		8,850.8773
Total	4.9363	29.3155	40.3504	0.1628	10.7566	0.1409	10.8974	2.8952	0.1327	3.0279		16,681.0895	16,681.0895	0.6175		16,696.5269

Mather South Construction Phase 1 - Sacramento County, Summer

3.4 Building Construction - 2021

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8689	27.0413	7.0691	0.0740	1.8944	0.0835	1.9779	0.5449	0.0798	0.6248		7,835.9537	7,835.9537	0.3878		7,845.6495
Worker	4.0675	2.2742	33.2814	0.0888	8.8621	0.0574	8.9195	2.3503	0.0529	2.4032		8,845.1358	8,845.1358	0.2297		8,850.8773
Total	4.9363	29.3155	40.3504	0.1628	10.7566	0.1409	10.8974	2.8952	0.1327	3.0279		16,681.0895	16,681.0895	0.6175		16,696.5269

Mather South Construction Phase 1 - Sacramento County, Summer

3.4 Building Construction - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8070	25.5771	6.5258	0.0733	1.8942	0.0730	1.9672	0.5449	0.0699	0.6147		7,766.9164	7,766.9164	0.3766		7,776.3313
Worker	3.8018	2.0472	30.6786	0.0856	8.8621	0.0559	8.9180	2.3503	0.0515	2.4018		8,527.6447	8,527.6447	0.2066		8,532.8084
Total	4.6087	27.6243	37.2044	0.1589	10.7563	0.1289	10.8852	2.8951	0.1213	3.0164		16,294.5611	16,294.5611	0.5831		16,309.1397

Mather South Construction Phase 1 - Sacramento County, Summer

3.4 Building Construction - 2022

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8070	25.5771	6.5258	0.0733	1.8942	0.0730	1.9672	0.5449	0.0699	0.6147		7,766.9164	7,766.9164	0.3766		7,776.3313
Worker	3.8018	2.0472	30.6786	0.0856	8.8621	0.0559	8.9180	2.3503	0.0515	2.4018		8,527.6447	8,527.6447	0.2066		8,532.8084
Total	4.6087	27.6243	37.2044	0.1589	10.7563	0.1289	10.8852	2.8951	0.1213	3.0164		16,294.5611	16,294.5611	0.5831		16,309.1397

Mather South Construction Phase 1 - Sacramento County, Summer

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0734	0.0395	0.5923	1.6500e-003	0.1711	1.0800e-003	0.1722	0.0454	9.9000e-004	0.0464		164.6264	164.6264	3.9900e-003		164.7260
Total	0.0734	0.0395	0.5923	1.6500e-003	0.1711	1.0800e-003	0.1722	0.0454	9.9000e-004	0.0464		164.6264	164.6264	3.9900e-003		164.7260

Mather South Construction Phase 1 - Sacramento County, Summer

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0734	0.0395	0.5923	1.6500e-003	0.1711	1.0800e-003	0.1722	0.0454	9.9000e-004	0.0464		164.6264	164.6264	3.9900e-003		164.7260
Total	0.0734	0.0395	0.5923	1.6500e-003	0.1711	1.0800e-003	0.1722	0.0454	9.9000e-004	0.0464		164.6264	164.6264	3.9900e-003		164.7260

Mather South Construction Phase 1 - Sacramento County, Summer

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	370.7013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	370.9059	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.7584	0.4084	6.1199	0.0171	1.7679	0.0112	1.7790	0.4688	0.0103	0.4791		1,701.1389	1,701.1389	0.0412		1,702.1690
Total	0.7584	0.4084	6.1199	0.0171	1.7679	0.0112	1.7790	0.4688	0.0103	0.4791		1,701.1389	1,701.1389	0.0412		1,702.1690

Mather South Construction Phase 1 - Sacramento County, Summer

3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	370.7013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	370.9059	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.7584	0.4084	6.1199	0.0171	1.7679	0.0112	1.7790	0.4688	0.0103	0.4791		1,701.1389	1,701.1389	0.0412		1,702.1690
Total	0.7584	0.4084	6.1199	0.0171	1.7679	0.0112	1.7790	0.4688	0.0103	0.4791		1,701.1389	1,701.1389	0.0412		1,702.1690

4.0 Operational Detail - Mobile

Mather South Construction Phase 1 - Sacramento County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	26.4162	87.7507	323.4683	1.0683	93.3825	0.7548	94.1373	24.9592	0.7037	25.6629		108,214.3584	108,214.3584	4.4772		108,326.2890
Unmitigated	26.4162	87.7507	323.4683	1.0683	93.3825	0.7548	94.1373	24.9592	0.7037	25.6629		108,214.3584	108,214.3584	4.4772		108,326.2890

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	619.46	673.04	570.58	2,283,978	2,283,978
Apartments Mid Rise	1,330.00	1,278.00	1172.00	4,787,971	4,787,971
City Park	21.89	263.45	193.85	218,855	218,855
Elementary School	967.50	0.00	0.00	2,167,433	2,167,433
General Office Building	1,819.95	405.90	173.25	4,184,403	4,184,403
Health Club	493.95	313.05	400.95	917,217	917,217
Research & Development	892.10	209.00	122.10	2,172,575	2,172,575
Single Family Housing	6,149.92	6,401.86	5568.52	22,477,144	22,477,144
Total	12,294.77	9,544.30	8,201.25	39,209,577	39,209,577

4.3 Trip Type Information

Mather South Construction Phase 1 - Sacramento County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
City Park	15.00	7.50	8.50	33.00	48.00	19.00	66	28	6
Elementary School	15.00	7.50	8.50	65.00	30.00	5.00	63	25	12
General Office Building	15.00	7.50	8.50	33.00	48.00	19.00	77	19	4
Health Club	15.00	7.50	8.50	16.90	64.10	19.00	52	39	9
Research & Development	15.00	7.50	8.50	33.00	48.00	19.00	82	15	3
Single Family Housing	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
Apartments Mid Rise	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
City Park	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
Elementary School	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
General Office Building	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
Health Club	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
Research & Development	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817
Single Family Housing	0.562895	0.037862	0.207220	0.115570	0.017815	0.005092	0.018559	0.023754	0.002009	0.001969	0.005819	0.000618	0.000817

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mather South Construction Phase 1 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.8087	7.0331	3.8383	0.0441		0.5587	0.5587		0.5587	0.5587		8,822.1434	8,822.1434	0.1691	0.1617	8,874.5690
NaturalGas Unmitigated	0.8087	7.0331	3.8383	0.0441		0.5587	0.5587		0.5587	0.5587		8,822.1434	8,822.1434	0.1691	0.1617	8,874.5690

Mather South Construction Phase 1 - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	3115.83	0.0336	0.2872	0.1222	1.8300e-003		0.0232	0.0232		0.0232	0.0232		366.5688	366.5688	7.0300e-003	6.7200e-003	368.7471
Apartments Mid Rise	5341.42	0.0576	0.4923	0.2095	3.1400e-003		0.0398	0.0398		0.0398	0.0398		628.4029	628.4029	0.0120	0.0115	632.1372
City Park	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
Elementary School	2621.48	0.0283	0.2570	0.2159	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.4095	308.4095	5.9100e-003	5.6500e-003	310.2423
General Office Building	5921.92	0.0639	0.5806	0.4877	3.4800e-003		0.0441	0.0441		0.0441	0.0441		696.6962	696.6962	0.0134	0.0128	700.8363
Health Club	1471.64	0.0159	0.1443	0.1212	8.7000e-004		0.0110	0.0110		0.0110	0.0110		173.1346	173.1346	3.3200e-003	3.1700e-003	174.1634
Research & Development	10792.1	0.1164	1.0580	0.8888	6.3500e-003		0.0804	0.0804		0.0804	0.0804		1,269.6535	1,269.6535	0.0243	0.0233	1,277.1984
Single Family Housing	45723.9	0.4931	4.2138	1.7931	0.0269		0.3407	0.3407		0.3407	0.3407		5,379.2779	5,379.2779	0.1031	0.0986	5,411.2443
Total		0.8087	7.0331	3.8383	0.0441		0.5587	0.5587		0.5587	0.5587		8,822.1434	8,822.1434	0.1691	0.1617	8,874.5690

Mather South Construction Phase 1 - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	3.11583	0.0336	0.2872	0.1222	1.8300e-003		0.0232	0.0232		0.0232	0.0232		366.5688	366.5688	7.0300e-003	6.7200e-003	368.7471
Apartments Mid Rise	5.34142	0.0576	0.4923	0.2095	3.1400e-003		0.0398	0.0398		0.0398	0.0398		628.4029	628.4029	0.0120	0.0115	632.1372
City Park	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
Elementary School	2.62148	0.0283	0.2570	0.2159	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.4095	308.4095	5.9100e-003	5.6500e-003	310.2423
General Office Building	5.92192	0.0639	0.5806	0.4877	3.4800e-003		0.0441	0.0441		0.0441	0.0441		696.6962	696.6962	0.0134	0.0128	700.8363
Health Club	1.47164	0.0159	0.1443	0.1212	8.7000e-004		0.0110	0.0110		0.0110	0.0110		173.1346	173.1346	3.3200e-003	3.1700e-003	174.1634
Research & Development	10.7921	0.1164	1.0580	0.8888	6.3500e-003		0.0804	0.0804		0.0804	0.0804		1,269.6535	1,269.6535	0.0243	0.0233	1,277.1984
Single Family Housing	45.7239	0.4931	4.2138	1.7931	0.0269		0.3407	0.3407		0.3407	0.3407		5,379.2779	5,379.2779	0.1031	0.0986	5,411.2443
Total		0.8087	7.0331	3.8383	0.0441		0.5587	0.5587		0.5587	0.5587		8,822.1434	8,822.1434	0.1691	0.1617	8,874.5690

6.0 Area Detail

6.1 Mitigation Measures Area

Mather South Construction Phase 1 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	46.9868	0.8951	77.6758	4.1000e-003		0.4297	0.4297		0.4297	0.4297	0.0000	139.8693	139.8693	0.1349	0.0000	143.2414
Unmitigated	46.9868	0.8951	77.6758	4.1000e-003		0.4297	0.4297		0.4297	0.4297	0.0000	139.8693	139.8693	0.1349	0.0000	143.2414

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	5.8906					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	38.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3468	0.8951	77.6758	4.1000e-003		0.4297	0.4297		0.4297	0.4297		139.8693	139.8693	0.1349		143.2414
Total	46.9868	0.8951	77.6758	4.1000e-003		0.4297	0.4297		0.4297	0.4297	0.0000	139.8693	139.8693	0.1349	0.0000	143.2414

Mather South Construction Phase 1 - Sacramento County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.8906					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	38.7493					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3468	0.8951	77.6758	4.1000e-003		0.4297	0.4297		0.4297	0.4297		139.8693	139.8693	0.1349		143.2414
Total	46.9868	0.8951	77.6758	4.1000e-003		0.4297	0.4297		0.4297	0.4297	0.0000	139.8693	139.8693	0.1349	0.0000	143.2414

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Mather South Construction Phase 1 - Sacramento County, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Phase 2 Construction - Sacramento County, Annual

**Phase 2 Construction
Sacramento County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	682.00	Dwelling Unit	102.37	1,227,600.00	1821
Apartments Low Rise	183.00	Dwelling Unit	18.31	183,000.00	489
City Park	4.95	Acre	4.95	215,622.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2032
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See Appendix for construction phasing assumptions

Construction Phase - Construction phasing adjusted proportionally to CalEEMod defaults - see Appendix for details

Vehicle Trips - Construction run only

Phase 2 Construction - Sacramento County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	43.00
tblConstructionPhase	NumDays	3,100.00	611.00
tblConstructionPhase	NumDays	310.00	61.00
tblConstructionPhase	NumDays	220.00	43.00
tblConstructionPhase	NumDays	120.00	24.00
tblConstructionPhase	PhaseEndDate	12/24/2038	12/29/2025
tblConstructionPhase	PhaseEndDate	4/17/2037	8/29/2025
tblConstructionPhase	PhaseEndDate	5/30/2025	4/28/2023
tblConstructionPhase	PhaseEndDate	2/19/2038	10/29/2025
tblConstructionPhase	PhaseEndDate	3/22/2024	2/2/2023
tblConstructionPhase	PhaseStartDate	2/20/2038	10/30/2025
tblConstructionPhase	PhaseStartDate	5/31/2025	4/28/2023
tblConstructionPhase	PhaseStartDate	3/23/2024	2/3/2023
tblConstructionPhase	PhaseStartDate	4/18/2037	8/30/2025
tblConstructionPhase	PhaseStartDate	10/7/2023	1/1/2023
tblGrading	AcresOfGrading	152.50	775.00
tblLandUse	LotAcreage	221.43	102.37
tblLandUse	LotAcreage	11.44	18.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

Phase 2 Construction - Sacramento County, Annual

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					
2023	0.4742	3.7742	4.0518	0.0121	1.3600	0.1248	1.4848	0.4124	0.1162	0.5285	0.0000	1,094.581 2	1,094.581 2	0.1382	0.0000	1,098.035 6
2024	0.4727	3.3862	4.2241	0.0141	0.8031	0.0869	0.8900	0.2165	0.0817	0.2982	0.0000	1,288.159 7	1,288.159 7	0.1042	0.0000	1,290.765 5
2025	9.1520	2.3374	3.0994	9.9000e-003	0.5561	0.0601	0.6162	0.1498	0.0564	0.2062	0.0000	902.6931	902.6931	0.0823	0.0000	904.7513
Maximum	9.1520	3.7742	4.2241	0.0141	1.3600	0.1248	1.4848	0.4124	0.1162	0.5285	0.0000	1,288.159 7	1,288.159 7	0.1382	0.0000	1,290.765 5

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.4742	3.7742	4.0518	0.0121	1.3600	0.1248	1.4848	0.4124	0.1162	0.5285	0.0000	1,094.580 7	1,094.580 7	0.1382	0.0000	1,098.035 1
2024	0.4727	3.3862	4.2241	0.0141	0.8031	0.0869	0.8900	0.2165	0.0817	0.2982	0.0000	1,288.159 4	1,288.159 4	0.1042	0.0000	1,290.765 1
2025	9.1520	2.3374	3.0994	9.9000e-003	0.5561	0.0601	0.6162	0.1498	0.0564	0.2062	0.0000	902.6928	902.6928	0.0823	0.0000	904.7511
Maximum	9.1520	3.7742	4.2241	0.0141	1.3600	0.1248	1.4848	0.4124	0.1162	0.5285	0.0000	1,288.159 4	1,288.159 4	0.1382	0.0000	1,290.765 1

Phase 2 Construction - Sacramento County, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	1.1306	1.1306
2	4-1-2023	6-30-2023	1.0856	1.0856
3	7-1-2023	9-30-2023	1.0146	1.0146
4	10-1-2023	12-31-2023	1.0287	1.0287
5	1-1-2024	3-31-2024	0.9672	0.9672
6	4-1-2024	6-30-2024	0.9541	0.9541
7	7-1-2024	9-30-2024	0.9646	0.9646
8	10-1-2024	12-31-2024	0.9778	0.9778
9	1-1-2025	3-31-2025	0.9071	0.9071
10	4-1-2025	6-30-2025	0.9049	0.9049
11	7-1-2025	9-30-2025	0.7062	0.7062
		Highest	1.1306	1.1306

Phase 2 Construction - Sacramento County, Annual

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	6.6599	0.1026	8.8969	4.7000e-004		0.0495	0.0495		0.0495	0.0495	0.0000	14.5715	14.5715	0.0139	0.0000	14.9186
Energy	0.1069	0.9139	0.3889	5.8300e-003		0.0739	0.0739		0.0739	0.0739	0.0000	2,820.5388	2,820.5388	0.1069	0.0373	2,834.3299
Mobile	1.5007	7.3306	19.9304	0.0909	10.5226	0.0532	10.5758	2.8177	0.0495	2.8672	0.0000	8,407.3142	8,407.3142	0.3016	0.0000	8,414.8554
Waste						0.0000	0.0000		0.0000	0.0000	150.2478	0.0000	150.2478	8.8794	0.0000	372.2326
Water						0.0000	0.0000		0.0000	0.0000	19.9396	114.0146	133.9542	0.0742	0.0445	149.0772
Total	8.2675	8.3470	29.2162	0.0972	10.5226	0.1766	10.6992	2.8177	0.1728	2.9905	170.1875	11,356.4392	11,526.6266	9.3760	0.0818	11,785.4137

Phase 2 Construction - Sacramento County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.6599	0.1026	8.8969	4.7000e-004		0.0495	0.0495		0.0495	0.0495	0.0000	14.5715	14.5715	0.0139	0.0000	14.9186
Energy	0.1069	0.9139	0.3889	5.8300e-003		0.0739	0.0739		0.0739	0.0739	0.0000	2,820.5388	2,820.5388	0.1069	0.0373	2,834.3299
Mobile	1.5007	7.3306	19.9304	0.0909	10.5226	0.0532	10.5758	2.8177	0.0495	2.8672	0.0000	8,407.3142	8,407.3142	0.3016	0.0000	8,414.8554
Waste						0.0000	0.0000		0.0000	0.0000	150.2478	0.0000	150.2478	8.8794	0.0000	372.2326
Water						0.0000	0.0000		0.0000	0.0000	19.9396	114.0146	133.9542	0.0742	0.0445	149.0772
Total	8.2675	8.3470	29.2162	0.0972	10.5226	0.1766	10.6992	2.8177	0.1728	2.9905	170.1875	11,356.4392	11,526.6266	9.3760	0.0818	11,785.4137

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

3.0 Construction Detail

Construction Phase

Phase 2 Construction - Sacramento County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	2/2/2023	5	24	
2	Grading	Grading	2/3/2023	4/28/2023	5	61	
3	Building Construction	Building Construction	4/28/2023	8/29/2025	5	611	
4	Paving	Paving	8/30/2025	10/29/2025	5	43	
5	Architectural Coating	Architectural Coating	10/30/2025	12/29/2025	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 2,856,465; Residential Outdoor: 952,155; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase 2 Construction - Sacramento County, Annual

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	94.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	468.00	128.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT

Phase 2 Construction - Sacramento County, Annual

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2168	0.0000	0.2168	0.1192	0.0000	0.1192	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0319	0.3303	0.2189	4.6000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	40.1408	40.1408	0.0130	0.0000	40.4654
Total	0.0319	0.3303	0.2189	4.6000e-004	0.2168	0.0152	0.2320	0.1192	0.0140	0.1332	0.0000	40.1408	40.1408	0.0130	0.0000	40.4654

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.9000e-004	5.7000e-004	6.4900e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.8698	1.8698	4.0000e-005	0.0000	1.8708
Total	8.9000e-004	5.7000e-004	6.4900e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.8698	1.8698	4.0000e-005	0.0000	1.8708

Phase 2 Construction - Sacramento County, Annual

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2168	0.0000	0.2168	0.1192	0.0000	0.1192	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0319	0.3303	0.2189	4.6000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	40.1408	40.1408	0.0130	0.0000	40.4654
Total	0.0319	0.3303	0.2189	4.6000e-004	0.2168	0.0152	0.2320	0.1192	0.0140	0.1332	0.0000	40.1408	40.1408	0.0130	0.0000	40.4654

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.9000e-004	5.7000e-004	6.4900e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.8698	1.8698	4.0000e-005	0.0000	1.8708
Total	8.9000e-004	5.7000e-004	6.4900e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.8698	1.8698	4.0000e-005	0.0000	1.8708

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Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.5946	0.0000	0.5946	0.1453	0.0000	0.1453	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1013	1.0527	0.8556	1.8900e-003		0.0435	0.0435		0.0400	0.0400	0.0000	166.3324	166.3324	0.0538	0.0000	167.6773
Total	0.1013	1.0527	0.8556	1.8900e-003	0.5946	0.0435	0.6381	0.1453	0.0400	0.1853	0.0000	166.3324	166.3324	0.0538	0.0000	167.6773

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.6000e-003	0.0183	6.0000e-005	6.7200e-003	4.0000e-005	6.7600e-003	1.7900e-003	4.0000e-005	1.8300e-003	0.0000	5.2805	5.2805	1.2000e-004	0.0000	5.2834
Total	2.5000e-003	1.6000e-003	0.0183	6.0000e-005	6.7200e-003	4.0000e-005	6.7600e-003	1.7900e-003	4.0000e-005	1.8300e-003	0.0000	5.2805	5.2805	1.2000e-004	0.0000	5.2834

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3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.5946	0.0000	0.5946	0.1453	0.0000	0.1453	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1013	1.0527	0.8556	1.8900e-003		0.0435	0.0435		0.0400	0.0400	0.0000	166.3322	166.3322	0.0538	0.0000	167.6771
Total	0.1013	1.0527	0.8556	1.8900e-003	0.5946	0.0435	0.6381	0.1453	0.0400	0.1853	0.0000	166.3322	166.3322	0.0538	0.0000	167.6771

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-003	1.6000e-003	0.0183	6.0000e-005	6.7200e-003	4.0000e-005	6.7600e-003	1.7900e-003	4.0000e-005	1.8300e-003	0.0000	5.2805	5.2805	1.2000e-004	0.0000	5.2834
Total	2.5000e-003	1.6000e-003	0.0183	6.0000e-005	6.7200e-003	4.0000e-005	6.7600e-003	1.7900e-003	4.0000e-005	1.8300e-003	0.0000	5.2805	5.2805	1.2000e-004	0.0000	5.2834

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Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1384	1.2659	1.4295	2.3700e-003		0.0616	0.0616		0.0579	0.0579	0.0000	203.9882	203.9882	0.0485	0.0000	205.2013
Total	0.1384	1.2659	1.4295	2.3700e-003		0.0616	0.0616		0.0579	0.0579	0.0000	203.9882	203.9882	0.0485	0.0000	205.2013

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0301	1.0153	0.2852	3.3300e-003	0.0860	1.6400e-003	0.0877	0.0248	1.5700e-003	0.0264	0.0000	320.4599	320.4599	0.0149	0.0000	320.8315
Worker	0.1691	0.1079	1.2378	3.9400e-003	0.4535	2.8900e-003	0.4564	0.1206	2.6600e-003	0.1233	0.0000	356.5096	356.5096	7.8500e-003	0.0000	356.7059
Total	0.1992	1.1231	1.5230	7.2700e-003	0.5395	4.5300e-003	0.5440	0.1454	4.2300e-003	0.1497	0.0000	676.9695	676.9695	0.0227	0.0000	677.5374

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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	0.1384	1.2659	1.4295	2.3700e-003		0.0616	0.0616		0.0579	0.0579	0.0000	203.9879	203.9879	0.0485	0.0000	205.2011
Total	0.1384	1.2659	1.4295	2.3700e-003		0.0616	0.0616		0.0579	0.0579	0.0000	203.9879	203.9879	0.0485	0.0000	205.2011

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0301	1.0153	0.2852	3.3300e-003	0.0860	1.6400e-003	0.0877	0.0248	1.5700e-003	0.0264	0.0000	320.4599	320.4599	0.0149	0.0000	320.8315
Worker	0.1691	0.1079	1.2378	3.9400e-003	0.4535	2.8900e-003	0.4564	0.1206	2.6600e-003	0.1233	0.0000	356.5096	356.5096	7.8500e-003	0.0000	356.7059
Total	0.1992	1.1231	1.5230	7.2700e-003	0.5395	4.5300e-003	0.5440	0.1454	4.2300e-003	0.1497	0.0000	676.9695	676.9695	0.0227	0.0000	677.5374

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Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0428	1.4799	0.3981	4.9300e-003	0.1280	2.3200e-003	0.1303	0.0370	2.2200e-003	0.0392	0.0000	474.3704	474.3704	0.0219	0.0000	474.9169
Worker	0.2371	0.1452	1.7082	5.6400e-003	0.6751	4.2100e-003	0.6793	0.1795	3.8700e-003	0.1834	0.0000	510.0670	510.0670	0.0106	0.0000	510.3307
Total	0.2799	1.6251	2.1063	0.0106	0.8031	6.5300e-003	0.8097	0.2165	6.0900e-003	0.2226	0.0000	984.4374	984.4374	0.0324	0.0000	985.2476

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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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0428	1.4799	0.3981	4.9300e-003	0.1280	2.3200e-003	0.1303	0.0370	2.2200e-003	0.0392	0.0000	474.3704	474.3704	0.0219	0.0000	474.9169
Worker	0.2371	0.1452	1.7082	5.6400e-003	0.6751	4.2100e-003	0.6793	0.1795	3.8700e-003	0.1834	0.0000	510.0670	510.0670	0.0106	0.0000	510.3307
Total	0.2799	1.6251	2.1063	0.0106	0.8031	6.5300e-003	0.8097	0.2165	6.0900e-003	0.2226	0.0000	984.4374	984.4374	0.0324	0.0000	985.2476

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3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1183	1.0786	1.3913	2.3300e-003		0.0456	0.0456		0.0429	0.0429	0.0000	200.6103	200.6103	0.0472	0.0000	201.7893
Total	0.1183	1.0786	1.3913	2.3300e-003		0.0456	0.0456		0.0429	0.0429	0.0000	200.6103	200.6103	0.0472	0.0000	201.7893

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0272	0.9574	0.2495	3.2300e-003	0.0845	1.4600e-003	0.0860	0.0244	1.3900e-003	0.0258	0.0000	311.5292	311.5292	0.0143	0.0000	311.8860
Worker	0.1481	0.0871	1.0457	3.5700e-003	0.4458	2.7200e-003	0.4485	0.1185	2.5100e-003	0.1210	0.0000	323.3065	323.3065	6.3200e-003	0.0000	323.4644
Total	0.1753	1.0446	1.2952	6.8000e-003	0.5303	4.1800e-003	0.5345	0.1430	3.9000e-003	0.1469	0.0000	634.8357	634.8357	0.0206	0.0000	635.3504

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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	0.1183	1.0786	1.3913	2.3300e-003		0.0456	0.0456		0.0429	0.0429	0.0000	200.6101	200.6101	0.0472	0.0000	201.7890
Total	0.1183	1.0786	1.3913	2.3300e-003		0.0456	0.0456		0.0429	0.0429	0.0000	200.6101	200.6101	0.0472	0.0000	201.7890

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0272	0.9574	0.2495	3.2300e-003	0.0845	1.4600e-003	0.0860	0.0244	1.3900e-003	0.0258	0.0000	311.5292	311.5292	0.0143	0.0000	311.8860
Worker	0.1481	0.0871	1.0457	3.5700e-003	0.4458	2.7200e-003	0.4485	0.1185	2.5100e-003	0.1210	0.0000	323.3065	323.3065	6.3200e-003	0.0000	323.4644
Total	0.1753	1.0446	1.2952	6.8000e-003	0.5303	4.1800e-003	0.5345	0.1430	3.9000e-003	0.1469	0.0000	634.8357	634.8357	0.0206	0.0000	635.3504

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3.5 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0197	0.1845	0.3134	4.9000e-004		9.0000e-003	9.0000e-003		8.2800e-003	8.2800e-003	0.0000	43.0414	43.0414	0.0139	0.0000	43.3894
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0197	0.1845	0.3134	4.9000e-004		9.0000e-003	9.0000e-003		8.2800e-003	8.2800e-003	0.0000	43.0414	43.0414	0.0139	0.0000	43.3894

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1800e-003	6.9000e-004	8.3300e-003	3.0000e-005	3.5500e-003	2.0000e-005	3.5700e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.5756	2.5756	5.0000e-005	0.0000	2.5769
Total	1.1800e-003	6.9000e-004	8.3300e-003	3.0000e-005	3.5500e-003	2.0000e-005	3.5700e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.5756	2.5756	5.0000e-005	0.0000	2.5769

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3.5 Paving - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0197	0.1845	0.3134	4.9000e-004		9.0000e-003	9.0000e-003		8.2800e-003	8.2800e-003	0.0000	43.0414	43.0414	0.0139	0.0000	43.3894
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0197	0.1845	0.3134	4.9000e-004		9.0000e-003	9.0000e-003		8.2800e-003	8.2800e-003	0.0000	43.0414	43.0414	0.0139	0.0000	43.3894

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1800e-003	6.9000e-004	8.3300e-003	3.0000e-005	3.5500e-003	2.0000e-005	3.5700e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.5756	2.5756	5.0000e-005	0.0000	2.5769
Total	1.1800e-003	6.9000e-004	8.3300e-003	3.0000e-005	3.5500e-003	2.0000e-005	3.5700e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.5756	2.5756	5.0000e-005	0.0000	2.5769

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3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.8265					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6700e-003	0.0246	0.0389	6.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	5.4895	5.4895	3.0000e-004	0.0000	5.4970
Total	8.8302	0.0246	0.0389	6.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	5.4895	5.4895	3.0000e-004	0.0000	5.4970

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-003	4.3500e-003	0.0522	1.8000e-004	0.0223	1.4000e-004	0.0224	5.9200e-003	1.3000e-004	6.0400e-003	0.0000	16.1406	16.1406	3.2000e-004	0.0000	16.1485
Total	7.4000e-003	4.3500e-003	0.0522	1.8000e-004	0.0223	1.4000e-004	0.0224	5.9200e-003	1.3000e-004	6.0400e-003	0.0000	16.1406	16.1406	3.2000e-004	0.0000	16.1485

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3.6 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.8265					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6700e-003	0.0246	0.0389	6.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	5.4895	5.4895	3.0000e-004	0.0000	5.4970
Total	8.8302	0.0246	0.0389	6.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	5.4895	5.4895	3.0000e-004	0.0000	5.4970

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-003	4.3500e-003	0.0522	1.8000e-004	0.0223	1.4000e-004	0.0224	5.9200e-003	1.3000e-004	6.0400e-003	0.0000	16.1406	16.1406	3.2000e-004	0.0000	16.1485
Total	7.4000e-003	4.3500e-003	0.0522	1.8000e-004	0.0223	1.4000e-004	0.0224	5.9200e-003	1.3000e-004	6.0400e-003	0.0000	16.1406	16.1406	3.2000e-004	0.0000	16.1485

4.0 Operational Detail - Mobile

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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	1.5007	7.3306	19.9304	0.0909	10.5226	0.0532	10.5758	2.8177	0.0495	2.8672	0.0000	8,407.314 2	8,407.314 2	0.3016	0.0000	8,414.855 4
Unmitigated	1.5007	7.3306	19.9304	0.0909	10.5226	0.0532	10.5758	2.8177	0.0495	2.8672	0.0000	8,407.314 2	8,407.314 2	0.3016	0.0000	8,414.855 4

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,205.97	1,310.28	1110.81	4,446,467	4,446,467
City Park	9.36	112.61	82.86	93,552	93,552
Single Family Housing	6,492.64	6,758.62	5878.84	23,729,740	23,729,740
Total	7,707.97	8,181.51	7,072.51	28,269,760	28,269,760

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
City Park	15.00	7.50	8.50	33.00	48.00	19.00	66	28	6
Single Family Housing	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
City Park	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Single Family Housing	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,762.1571	1,762.1571	0.0866	0.0179	1,769.6588
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,762.1571	1,762.1571	0.0866	0.0179	1,769.6588
NaturalGas Mitigated	0.1069	0.9139	0.3889	5.8300e-003		0.0739	0.0739		0.0739	0.0739	0.0000	1,058.3817	1,058.3817	0.0203	0.0194	1,064.6712
NaturalGas Unmitigated	0.1069	0.9139	0.3889	5.8300e-003		0.0739	0.0739		0.0739	0.0739	0.0000	1,058.3817	1,058.3817	0.0203	0.0194	1,064.6712

Phase 2 Construction - Sacramento County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	2.21407e+006	0.0119	0.1020	0.0434	6.5000e-004		8.2500e-003	8.2500e-003		8.2500e-003	8.2500e-003	0.0000	118.1510	118.1510	2.2600e-003	2.1700e-003	118.8531
City Park	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
Single Family Housing	1.76193e+007	0.0950	0.8119	0.3455	5.1800e-003		0.0656	0.0656		0.0656	0.0656	0.0000	940.2307	940.2307	0.0180	0.0172	945.8181
Total		0.1070	0.9139	0.3889	5.8300e-003		0.0739	0.0739		0.0739	0.0739	0.0000	1,058.3817	1,058.3817	0.0203	0.0194	1,064.6712

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	2.21407e+006	0.0119	0.1020	0.0434	6.5000e-004		8.2500e-003	8.2500e-003		8.2500e-003	8.2500e-003	0.0000	118.1510	118.1510	2.2600e-003	2.1700e-003	118.8531
City Park	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
Single Family Housing	1.76193e+007	0.0950	0.8119	0.3455	5.1800e-003		0.0656	0.0656		0.0656	0.0656	0.0000	940.2307	940.2307	0.0180	0.0172	945.8181
Total		0.1070	0.9139	0.3889	5.8300e-003		0.0739	0.0739		0.0739	0.0739	0.0000	1,058.3817	1,058.3817	0.0203	0.0194	1,064.6712

Phase 2 Construction - Sacramento County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	822446	220.2182	0.0108	2.2400e-003	221.1557
City Park	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.75866e+006	1,541.9389	0.0758	0.0157	1,548.5031
Total		1,762.1571	0.0866	0.0179	1,769.6588

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	822446	220.2182	0.0108	2.2400e-003	221.1557
City Park	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.75866e+006	1,541.9389	0.0758	0.0157	1,548.5031
Total		1,762.1571	0.0866	0.0179	1,769.6588

6.0 Area Detail

Phase 2 Construction - Sacramento County, Annual

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	6.6599	0.1026	8.8969	4.7000e-004		0.0495	0.0495		0.0495	0.0495	0.0000	14.5715	14.5715	0.0139	0.0000	14.9186
Unmitigated	6.6599	0.1026	8.8969	4.7000e-004		0.0495	0.0495		0.0495	0.0495	0.0000	14.5715	14.5715	0.0139	0.0000	14.9186

Phase 2 Construction - Sacramento County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.8827					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.5111					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2661	0.1026	8.8969	4.7000e-004		0.0495	0.0495		0.0495	0.0495	0.0000	14.5715	14.5715	0.0139	0.0000	14.9186
Total	6.6599	0.1026	8.8969	4.7000e-004		0.0495	0.0495		0.0495	0.0495	0.0000	14.5715	14.5715	0.0139	0.0000	14.9186

Phase 2 Construction - Sacramento County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.8827					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.5111					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2661	0.1026	8.8969	4.7000e-004		0.0495	0.0495		0.0495	0.0495	0.0000	14.5715	14.5715	0.0139	0.0000	14.9186
Total	6.6599	0.1026	8.8969	4.7000e-004		0.0495	0.0495		0.0495	0.0495	0.0000	14.5715	14.5715	0.0139	0.0000	14.9186

7.0 Water Detail

7.1 Mitigation Measures Water

Phase 2 Construction - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	133.9542	0.0742	0.0445	149.0772
Unmitigated	133.9542	0.0742	0.0445	149.0772

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	11.9232 / 7.51679	27.1701	0.0157	9.4100e-003	30.3646
City Park	0 / 5.89783	5.5272	2.7000e-004	6.0000e-005	5.5508
Single Family Housing	44.435 / 28.0134	101.2569	0.0583	0.0351	113.1619
Total		133.9542	0.0742	0.0445	149.0773

Phase 2 Construction - Sacramento County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	11.9232 / 7.51679	27.1701	0.0157	9.4100e-003	30.3646
City Park	0 / 5.89783	5.5272	2.7000e-004	6.0000e-005	5.5508
Single Family Housing	44.435 / 28.0134	101.2569	0.0583	0.0351	113.1619
Total		133.9542	0.0742	0.0445	149.0773

8.0 Waste Detail

8.1 Mitigation Measures Waste

Phase 2 Construction - Sacramento County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	150.2478	8.8794	0.0000	372.2326
Unmitigated	150.2478	8.8794	0.0000	372.2326

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	84.18	17.0878	1.0099	0.0000	42.3343
City Park	0.43	0.0873	5.1600e-003	0.0000	0.2163
Single Family Housing	655.56	133.0728	7.8644	0.0000	329.6821
Total		150.2478	8.8794	0.0000	372.2326

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	84.18	17.0878	1.0099	0.0000	42.3343
City Park	0.43	0.0873	5.1600e-003	0.0000	0.2163
Single Family Housing	655.56	133.0728	7.8644	0.0000	329.6821
Total		150.2478	8.8794	0.0000	372.2326

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

Equipment Type	Number
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Phase 2 Construction - Sacramento County, Annual

11.0 Vegetation

Phase 2 Construction - Sacramento County, Summer

Phase 2 Construction
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	682.00	Dwelling Unit	102.37	1,227,600.00	1821
Apartments Low Rise	183.00	Dwelling Unit	18.31	183,000.00	489
City Park	4.95	Acre	4.95	215,622.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2032
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See Appendix for construction phasing assumptions

Construction Phase - Construction phasing adjusted proportionally to CalEEMod defaults - see Appendix for details

Vehicle Trips - Construction run only

Phase 2 Construction - Sacramento County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	43.00
tblConstructionPhase	NumDays	3,100.00	611.00
tblConstructionPhase	NumDays	310.00	61.00
tblConstructionPhase	NumDays	220.00	43.00
tblConstructionPhase	NumDays	120.00	24.00
tblConstructionPhase	PhaseEndDate	12/24/2038	12/29/2025
tblConstructionPhase	PhaseEndDate	4/17/2037	8/29/2025
tblConstructionPhase	PhaseEndDate	5/30/2025	4/28/2023
tblConstructionPhase	PhaseEndDate	2/19/2038	10/29/2025
tblConstructionPhase	PhaseEndDate	3/22/2024	2/2/2023
tblConstructionPhase	PhaseStartDate	2/20/2038	10/30/2025
tblConstructionPhase	PhaseStartDate	5/31/2025	4/28/2023
tblConstructionPhase	PhaseStartDate	3/23/2024	2/3/2023
tblConstructionPhase	PhaseStartDate	4/18/2037	8/30/2025
tblConstructionPhase	PhaseStartDate	10/7/2023	1/1/2023
tblGrading	AcresOfGrading	152.50	775.00
tblLandUse	LotAcreage	221.43	102.37
tblLandUse	LotAcreage	11.44	18.31
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

Phase 2 Construction - Sacramento County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	7.4661	61.3902	65.1204	0.1789	26.0675	2.1765	28.2441	9.9851	2.0178	11.1510	0.0000	17,770.5054	17,770.5054	2.8493	0.0000	17,841.7368
2024	3.8089	25.5491	34.8535	0.1126	6.3436	0.6627	7.0063	1.7049	0.6230	2.3279	0.0000	11,332.8630	11,332.8630	0.8837	0.0000	11,354.9547
2025	411.0872	24.2635	33.4894	0.1104	6.3436	0.5755	6.9190	1.7049	0.5410	2.2459	0.0000	11,121.0576	11,121.0576	0.8689	0.0000	11,142.7791
Maximum	411.0872	61.3902	65.1204	0.1789	26.0675	2.1765	28.2441	9.9851	2.0178	11.1510	0.0000	17,770.5054	17,770.5054	2.8493	0.0000	17,841.7368

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					
2023	7.4661	61.3902	65.1204	0.1789	26.0675	2.1765	28.2441	9.9851	2.0178	11.1510	0.0000	17,770.5054	17,770.5054	2.8493	0.0000	17,841.7368
2024	3.8089	25.5491	34.8535	0.1126	6.3436	0.6627	7.0063	1.7049	0.6230	2.3279	0.0000	11,332.8630	11,332.8630	0.8837	0.0000	11,354.9547
2025	411.0872	24.2635	33.4894	0.1104	6.3436	0.5755	6.9190	1.7049	0.5410	2.2459	0.0000	11,121.0576	11,121.0576	0.8689	0.0000	11,142.7791
Maximum	411.0872	61.3902	65.1204	0.1789	26.0675	2.1765	28.2441	9.9851	2.0178	11.1510	0.0000	17,770.5054	17,770.5054	2.8493	0.0000	17,841.7368

Phase 2 Construction - Sacramento County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	37.1633	0.8205	71.1755	3.7700e-003		0.3958	0.3958		0.3958	0.3958	0.0000	128.4988	128.4988	0.1224	0.0000	131.5595
Energy	0.5860	5.0076	2.1309	0.0320		0.4049	0.4049		0.4049	0.4049		6,392.6912	6,392.6912	0.1225	0.1172	6,430.6797
Mobile	10.9360	41.3732	134.0777	0.5727	63.5674	0.3104	63.8778	16.9735	0.2886	17.2621		58,278.8887	58,278.8887	1.9800		58,328.3886
Total	48.6853	47.2013	207.3841	0.6084	63.5674	1.1110	64.6784	16.9735	1.0892	18.0627	0.0000	64,800.0787	64,800.0787	2.2250	0.1172	64,890.6278

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	37.1633	0.8205	71.1755	3.7700e-003		0.3958	0.3958		0.3958	0.3958	0.0000	128.4988	128.4988	0.1224	0.0000	131.5595
Energy	0.5860	5.0076	2.1309	0.0320		0.4049	0.4049		0.4049	0.4049		6,392.6912	6,392.6912	0.1225	0.1172	6,430.6797
Mobile	10.9360	41.3732	134.0777	0.5727	63.5674	0.3104	63.8778	16.9735	0.2886	17.2621		58,278.8887	58,278.8887	1.9800		58,328.3886
Total	48.6853	47.2013	207.3841	0.6084	63.5674	1.1110	64.6784	16.9735	1.0892	18.0627	0.0000	64,800.0787	64,800.0787	2.2250	0.1172	64,890.6278

Phase 2 Construction - Sacramento County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	2/2/2023	5	24	
2	Grading	Grading	2/3/2023	4/28/2023	5	61	
3	Building Construction	Building Construction	4/28/2023	8/29/2025	5	611	
4	Paving	Paving	8/30/2025	10/29/2025	5	43	
5	Architectural Coating	Architectural Coating	10/30/2025	12/29/2025	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 2,856,465; Residential Outdoor: 952,155; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase 2 Construction - Sacramento County, Summer

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	94.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	468.00	128.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT

Phase 2 Construction - Sacramento County, Summer

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	18.0663	1.2660	19.3323	9.9307	1.1647	11.0954		3,687.308 1	3,687.308 1	1.1926		3,717.121 9

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0824	0.0427	0.6547	1.9100e-003	0.2053	1.2600e-003	0.2066	0.0545	1.1600e-003	0.0556		190.1186	190.1186	4.2900e-003		190.2259
Total	0.0824	0.0427	0.6547	1.9100e-003	0.2053	1.2600e-003	0.2066	0.0545	1.1600e-003	0.0556		190.1186	190.1186	4.2900e-003		190.2259

Phase 2 Construction - Sacramento County, Summer

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	18.0663	1.2660	19.3323	9.9307	1.1647	11.0954	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0824	0.0427	0.6547	1.9100e-003	0.2053	1.2600e-003	0.2066	0.0545	1.1600e-003	0.0556		190.1186	190.1186	4.2900e-003		190.2259
Total	0.0824	0.0427	0.6547	1.9100e-003	0.2053	1.2600e-003	0.2066	0.0545	1.1600e-003	0.0556		190.1186	190.1186	4.2900e-003		190.2259

Phase 2 Construction - Sacramento County, Summer

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.4957	0.0000	19.4957	4.7651	0.0000	4.7651			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	19.4957	1.4245	20.9202	4.7651	1.3105	6.0756		6,011.4777	6,011.4777	1.9442		6,060.0836

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0916	0.0475	0.7275	2.1200e-003	0.2281	1.4000e-003	0.2295	0.0605	1.2900e-003	0.0618		211.2429	211.2429	4.7700e-003		211.3621
Total	0.0916	0.0475	0.7275	2.1200e-003	0.2281	1.4000e-003	0.2295	0.0605	1.2900e-003	0.0618		211.2429	211.2429	4.7700e-003		211.3621

Phase 2 Construction - Sacramento County, Summer

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.4957	0.0000	19.4957	4.7651	0.0000	4.7651			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	19.4957	1.4245	20.9202	4.7651	1.3105	6.0756	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0916	0.0475	0.7275	2.1200e-003	0.2281	1.4000e-003	0.2295	0.0605	1.2900e-003	0.0618		211.2429	211.2429	4.7700e-003		211.3621
Total	0.0916	0.0475	0.7275	2.1200e-003	0.2281	1.4000e-003	0.2295	0.0605	1.2900e-003	0.0618		211.2429	211.2429	4.7700e-003		211.3621

Phase 2 Construction - Sacramento County, Summer

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3367	11.3315	3.0743	0.0382	1.0059	0.0181	1.0240	0.2893	0.0173	0.3066		4,049.4905	4,049.4905	0.1808		4,054.0114
Worker	2.1434	1.1108	17.0234	0.0496	5.3378	0.0328	5.3706	1.4156	0.0303	1.4459		4,943.0844	4,943.0844	0.1116		4,945.8737
Total	2.4800	12.4422	20.0977	0.0878	6.3437	0.0509	6.3947	1.7049	0.0475	1.7525		8,992.5748	8,992.5748	0.2924		8,999.8851

Phase 2 Construction - Sacramento County, Summer

3.4 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3367	11.3315	3.0743	0.0382	1.0059	0.0181	1.0240	0.2893	0.0173	0.3066		4,049.4905	4,049.4905	0.1808		4,054.0114
Worker	2.1434	1.1108	17.0234	0.0496	5.3378	0.0328	5.3706	1.4156	0.0303	1.4459		4,943.0844	4,943.0844	0.1116		4,945.8737
Total	2.4800	12.4422	20.0977	0.0878	6.3437	0.0509	6.3947	1.7049	0.0475	1.7525		8,992.5748	8,992.5748	0.2924		8,999.8851

Phase 2 Construction - Sacramento County, Summer

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3216	11.1002	2.8824	0.0379	1.0058	0.0173	1.0231	0.2893	0.0165	0.3058		4,026.6188	4,026.6188	0.1786		4,031.0842
Worker	2.0157	1.0051	15.8043	0.0477	5.3378	0.0321	5.3699	1.4156	0.0296	1.4452		4,750.5453	4,750.5453	0.1007		4,753.0628
Total	2.3373	12.1053	18.6867	0.0856	6.3436	0.0494	6.3930	1.7049	0.0461	1.7510		8,777.1641	8,777.1641	0.2793		8,784.1470

Phase 2 Construction - Sacramento County, Summer

3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3216	11.1002	2.8824	0.0379	1.0058	0.0173	1.0231	0.2893	0.0165	0.3058		4,026.6188	4,026.6188	0.1786		4,031.0842
Worker	2.0157	1.0051	15.8043	0.0477	5.3378	0.0321	5.3699	1.4156	0.0296	1.4452		4,750.5453	4,750.5453	0.1007		4,753.0628
Total	2.3373	12.1053	18.6867	0.0856	6.3436	0.0494	6.3930	1.7049	0.0461	1.7510		8,777.1641	8,777.1641	0.2793		8,784.1470

Phase 2 Construction - Sacramento County, Summer

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3092	10.8801	2.7369	0.0377	1.0058	0.0164	1.0222	0.2893	0.0157	0.3050		4,004.6011	4,004.6011	0.1766		4,009.015 5
Worker	1.9044	0.9137	14.6679	0.0458	5.3378	0.0315	5.3693	1.4156	0.0290	1.4446		4,559.982 1	4,559.982 1	0.0913		4,562.265 6
Total	2.2135	11.7938	17.4047	0.0835	6.3436	0.0479	6.3915	1.7049	0.0447	1.7496		8,564.583 2	8,564.583 2	0.2679		8,571.281 0

Phase 2 Construction - Sacramento County, Summer

3.4 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3092	10.8801	2.7369	0.0377	1.0058	0.0164	1.0222	0.2893	0.0157	0.3050		4,004.6011	4,004.601 1	0.1766		4,009.015 5
Worker	1.9044	0.9137	14.6679	0.0458	5.3378	0.0315	5.3693	1.4156	0.0290	1.4446		4,559.982 1	4,559.982 1	0.0913		4,562.265 6
Total	2.2135	11.7938	17.4047	0.0835	6.3436	0.0479	6.3915	1.7049	0.0447	1.7496		8,564.583 2	8,564.583 2	0.2679		8,571.281 0

Phase 2 Construction - Sacramento County, Summer

3.5 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0610	0.0293	0.4701	1.4700e-003	0.1711	1.0100e-003	0.1721	0.0454	9.3000e-004	0.0463		146.1533	146.1533	2.9300e-003		146.2265
Total	0.0610	0.0293	0.4701	1.4700e-003	0.1711	1.0100e-003	0.1721	0.0454	9.3000e-004	0.0463		146.1533	146.1533	2.9300e-003		146.2265

Phase 2 Construction - Sacramento County, Summer

3.5 Paving - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0610	0.0293	0.4701	1.4700e-003	0.1711	1.0100e-003	0.1721	0.0454	9.3000e-004	0.0463		146.1533	146.1533	2.9300e-003		146.2265
Total	0.0610	0.0293	0.4701	1.4700e-003	0.1711	1.0100e-003	0.1721	0.0454	9.3000e-004	0.0463		146.1533	146.1533	2.9300e-003		146.2265

Phase 2 Construction - Sacramento County, Summer

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	410.5338					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	410.7047	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3825	0.1835	2.9461	9.1900e-003	1.0721	6.3300e-003	1.0785	0.2843	5.8200e-003	0.2902		915.8938	915.8938	0.0184		916.3525
Total	0.3825	0.1835	2.9461	9.1900e-003	1.0721	6.3300e-003	1.0785	0.2843	5.8200e-003	0.2902		915.8938	915.8938	0.0184		916.3525

Phase 2 Construction - Sacramento County, Summer

3.6 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	410.5338					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	410.7047	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3825	0.1835	2.9461	9.1900e-003	1.0721	6.3300e-003	1.0785	0.2843	5.8200e-003	0.2902		915.8938	915.8938	0.0184		916.3525
Total	0.3825	0.1835	2.9461	9.1900e-003	1.0721	6.3300e-003	1.0785	0.2843	5.8200e-003	0.2902		915.8938	915.8938	0.0184		916.3525

4.0 Operational Detail - Mobile

Phase 2 Construction - Sacramento County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.9360	41.3732	134.0777	0.5727	63.5674	0.3104	63.8778	16.9735	0.2886	17.2621		58,278.88 87	58,278.88 87	1.9800		58,328.38 86
Unmitigated	10.9360	41.3732	134.0777	0.5727	63.5674	0.3104	63.8778	16.9735	0.2886	17.2621		58,278.88 87	58,278.88 87	1.9800		58,328.38 86

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,205.97	1,310.28	1110.81	4,446,467	4,446,467
City Park	9.36	112.61	82.86	93,552	93,552
Single Family Housing	6,492.64	6,758.62	5878.84	23,729,740	23,729,740
Total	7,707.97	8,181.51	7,072.51	28,269,760	28,269,760

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
City Park	15.00	7.50	8.50	33.00	48.00	19.00	66	28	6
Single Family Housing	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3

Phase 2 Construction - Sacramento County, Summer

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
City Park	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Single Family Housing	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5860	5.0076	2.1309	0.0320		0.4049	0.4049		0.4049	0.4049		6,392.6912	6,392.6912	0.1225	0.1172	6,430.6797
NaturalGas Unmitigated	0.5860	5.0076	2.1309	0.0320		0.4049	0.4049		0.4049	0.4049		6,392.6912	6,392.6912	0.1225	0.1172	6,430.6797

Phase 2 Construction - Sacramento County, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	6065.93	0.0654	0.5590	0.2379	3.5700e-003		0.0452	0.0452		0.0452	0.0452		713.6393	713.6393	0.0137	0.0131	717.8801
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	48271.9	0.5206	4.4486	1.8930	0.0284		0.3597	0.3597		0.3597	0.3597		5,679.0519	5,679.0519	0.1089	0.1041	5,712.7997
Total		0.5860	5.0076	2.1309	0.0320		0.4049	0.4049		0.4049	0.4049		6,392.6912	6,392.6912	0.1225	0.1172	6,430.6797

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	6.06593	0.0654	0.5590	0.2379	3.5700e-003		0.0452	0.0452		0.0452	0.0452		713.6393	713.6393	0.0137	0.0131	717.8801
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	48.2719	0.5206	4.4486	1.8930	0.0284		0.3597	0.3597		0.3597	0.3597		5,679.0519	5,679.0519	0.1089	0.1041	5,712.7997
Total		0.5860	5.0076	2.1309	0.0320		0.4049	0.4049		0.4049	0.4049		6,392.6912	6,392.6912	0.1225	0.1172	6,430.6797

6.0 Area Detail

Phase 2 Construction - Sacramento County, Summer

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	37.1633	0.8205	71.1755	3.7700e-003		0.3958	0.3958		0.3958	0.3958	0.0000	128.4988	128.4988	0.1224	0.0000	131.5595
Unmitigated	37.1633	0.8205	71.1755	3.7700e-003		0.3958	0.3958		0.3958	0.3958	0.0000	128.4988	128.4988	0.1224	0.0000	131.5595

Phase 2 Construction - Sacramento 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	4.8364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	30.1980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1289	0.8205	71.1755	3.7700e-003		0.3958	0.3958		0.3958	0.3958		128.4988	128.4988	0.1224		131.5595
Total	37.1633	0.8205	71.1755	3.7700e-003		0.3958	0.3958		0.3958	0.3958	0.0000	128.4988	128.4988	0.1224	0.0000	131.5595

Phase 2 Construction - Sacramento County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.8364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	30.1980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1289	0.8205	71.1755	3.7700e-003		0.3958	0.3958		0.3958	0.3958		128.4988	128.4988	0.1224		131.5595
Total	37.1633	0.8205	71.1755	3.7700e-003		0.3958	0.3958		0.3958	0.3958	0.0000	128.4988	128.4988	0.1224	0.0000	131.5595

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Phase 2 Construction - Sacramento County, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Phase 3 Construction - Sacramento County, Annual

Phase 3 Construction Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	394.00	Dwelling Unit	62.81	709,200.00	1052
Apartments Low Rise	104.00	Dwelling Unit	10.37	104,000.00	278
Apartments Mid Rise	347.00	Dwelling Unit	17.36	347,000.00	926
Regional Shopping Center	158.00	1000sqft	17.96	158,000.00	0
Elementary School	750.00	Student	9.98	62,702.53	0
City Park	22.48	Acre	22.48	979,228.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2032
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See Appendix for construction phasing assumptions

Construction Phase - Construction phasing adjusted proportionally to CalEEMod defaults - see Appendix for details

Vehicle Trips - Construction run only

Phase 3 Construction - Sacramento County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	43.00
tblConstructionPhase	NumDays	3,100.00	611.00
tblConstructionPhase	NumDays	310.00	61.00
tblConstructionPhase	NumDays	220.00	43.00
tblConstructionPhase	NumDays	120.00	24.00
tblConstructionPhase	PhaseEndDate	12/25/2041	12/29/2028
tblConstructionPhase	PhaseEndDate	4/18/2040	8/31/2028
tblConstructionPhase	PhaseEndDate	5/31/2028	4/29/2026
tblConstructionPhase	PhaseEndDate	2/20/2041	10/31/2028
tblConstructionPhase	PhaseEndDate	3/24/2027	2/3/2026
tblConstructionPhase	PhaseStartDate	2/21/2041	11/1/2028
tblConstructionPhase	PhaseStartDate	6/1/2028	4/30/2026
tblConstructionPhase	PhaseStartDate	3/25/2027	2/4/2026
tblConstructionPhase	PhaseStartDate	4/19/2040	9/1/2028
tblConstructionPhase	PhaseStartDate	10/8/2026	1/1/2026
tblGrading	AcresOfGrading	152.50	775.00
tblLandUse	LotAcreage	127.92	62.81
tblLandUse	LotAcreage	6.50	10.37
tblLandUse	LotAcreage	9.13	17.36
tblLandUse	LotAcreage	3.63	17.96
tblLandUse	LotAcreage	1.44	9.98
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

Phase 3 Construction - Sacramento County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.5932	4.5605	5.0202	0.0193	1.9387	0.1027	2.0414	0.5687	0.0955	0.6642	0.0000	1,770.0287	1,770.0287	0.1590	0.0000	1,774.0037
2027	0.6747	4.9684	5.6749	0.0246	1.6582	0.0810	1.7393	0.4475	0.0762	0.5236	0.0000	2,271.1309	2,271.1309	0.1346	0.0000	2,274.4949
2028	8.7521	3.4836	4.0940	0.0170	1.1543	0.0639	1.2182	0.3113	0.0599	0.3712	0.0000	1,571.9890	1,571.9890	0.1032	0.0000	1,574.5695
Maximum	8.7521	4.9684	5.6749	0.0246	1.9387	0.1027	2.0414	0.5687	0.0955	0.6642	0.0000	2,271.1309	2,271.1309	0.1590	0.0000	2,274.4949

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.5932	4.5605	5.0202	0.0193	1.9387	0.1027	2.0414	0.5687	0.0955	0.6642	0.0000	1,770.0282	1,770.0282	0.1590	0.0000	1,774.0032
2027	0.6747	4.9684	5.6749	0.0246	1.6582	0.0810	1.7393	0.4475	0.0762	0.5236	0.0000	2,271.1305	2,271.1305	0.1346	0.0000	2,274.4945
2028	8.7521	3.4836	4.0940	0.0170	1.1543	0.0639	1.2182	0.3113	0.0599	0.3712	0.0000	1,571.9887	1,571.9887	0.1032	0.0000	1,574.5692
Maximum	8.7521	4.9684	5.6749	0.0246	1.9387	0.1027	2.0414	0.5687	0.0955	0.6642	0.0000	2,271.1305	2,271.1305	0.1590	0.0000	2,274.4945

Phase 3 Construction - Sacramento County, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2026	3-31-2026	0.9570	0.9570
2	4-1-2026	6-30-2026	1.2909	1.2909
3	7-1-2026	9-30-2026	1.4398	1.4398
4	10-1-2026	12-31-2026	1.4650	1.4650
5	1-1-2027	3-31-2027	1.4064	1.4064
6	4-1-2027	6-30-2027	1.3983	1.3983
7	7-1-2027	9-30-2027	1.4137	1.4137
8	10-1-2027	12-31-2027	1.4376	1.4376
9	1-1-2028	3-31-2028	1.3976	1.3976
10	4-1-2028	6-30-2028	1.3750	1.3750
11	7-1-2028	9-30-2028	1.0394	1.0394
		Highest	1.4650	1.4650

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2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.4916	0.1003	8.7030	4.6000e-004		0.0484	0.0484		0.0484	0.0484	0.0000	14.2576	14.2576	0.0136	0.0000	14.5981
Energy	0.0897	0.7718	0.3652	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	2,911.4034	2,911.4034	0.1164	0.0368	2,925.2934
Mobile	2.4596	11.9396	29.6989	0.1318	15.0479	0.0784	15.1263	4.0295	0.0729	4.1023	0.0000	12,187.9121	12,187.9121	0.4529	0.0000	12,199.2341
Waste						0.0000	0.0000		0.0000	0.0000	180.8426	0.0000	180.8426	10.6875	0.0000	448.0299
Water						0.0000	0.0000		0.0000	0.0000	24.2626	160.2240	184.4866	0.0914	0.0544	202.9798
Total	9.0410	12.8116	38.7671	0.1371	15.0479	0.1887	15.2366	4.0295	0.1832	4.2127	205.1052	15,273.7970	15,478.9022	11.3618	0.0912	15,790.1354

Phase 3 Construction - Sacramento County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.4916	0.1003	8.7030	4.6000e-004		0.0484	0.0484		0.0484	0.0484	0.0000	14.2576	14.2576	0.0136	0.0000	14.5981
Energy	0.0897	0.7718	0.3652	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	2,911.4034	2,911.4034	0.1164	0.0368	2,925.2934
Mobile	2.4596	11.9396	29.6989	0.1318	15.0479	0.0784	15.1263	4.0295	0.0729	4.1023	0.0000	12,187.9121	12,187.9121	0.4529	0.0000	12,199.2341
Waste						0.0000	0.0000		0.0000	0.0000	180.8426	0.0000	180.8426	10.6875	0.0000	448.0299
Water						0.0000	0.0000		0.0000	0.0000	24.2626	160.2240	184.4866	0.0914	0.0544	202.9798
Total	9.0410	12.8116	38.7671	0.1371	15.0479	0.1887	15.2366	4.0295	0.1832	4.2127	205.1052	15,273.7970	15,478.9022	11.3618	0.0912	15,790.1354

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

3.0 Construction Detail

Construction Phase

Phase 3 Construction - Sacramento County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2026	2/3/2026	5	24	
2	Grading	Grading	2/4/2026	4/29/2026	5	61	
3	Building Construction	Building Construction	4/30/2026	8/31/2028	5	611	
4	Paving	Paving	9/1/2028	10/31/2028	5	43	
5	Architectural Coating	Architectural Coating	11/1/2028	12/29/2028	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 2,349,405; Residential Outdoor: 783,135; Non-Residential Indoor: 331,054; Non-Residential Outdoor: 110,351; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase 3 Construction - Sacramento County, Annual

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	191.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	955.00	287.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT

Phase 3 Construction - Sacramento County, Annual

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2168	0.0000	0.2168	0.1192	0.0000	0.1192	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0297	0.3028	0.2149	4.6000e-004		0.0130	0.0130		0.0120	0.0120	0.0000	40.1604	40.1604	0.0130	0.0000	40.4851
Total	0.0297	0.3028	0.2149	4.6000e-004	0.2168	0.0130	0.2298	0.1192	0.0120	0.1312	0.0000	40.1604	40.1604	0.0130	0.0000	40.4851

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	4.3000e-004	5.2000e-003	2.0000e-005	2.3800e-003	1.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.6610	1.6610	3.0000e-005	0.0000	1.6617
Total	7.5000e-004	4.3000e-004	5.2000e-003	2.0000e-005	2.3800e-003	1.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.6610	1.6610	3.0000e-005	0.0000	1.6617

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3.2 Site Preparation - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2168	0.0000	0.2168	0.1192	0.0000	0.1192	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0297	0.3028	0.2149	4.6000e-004		0.0130	0.0130		0.0120	0.0120	0.0000	40.1603	40.1603	0.0130	0.0000	40.4851
Total	0.0297	0.3028	0.2149	4.6000e-004	0.2168	0.0130	0.2298	0.1192	0.0120	0.1312	0.0000	40.1603	40.1603	0.0130	0.0000	40.4851

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	4.3000e-004	5.2000e-003	2.0000e-005	2.3800e-003	1.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.6610	1.6610	3.0000e-005	0.0000	1.6617
Total	7.5000e-004	4.3000e-004	5.2000e-003	2.0000e-005	2.3800e-003	1.0000e-005	2.3900e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.6610	1.6610	3.0000e-005	0.0000	1.6617

Phase 3 Construction - Sacramento County, Annual

3.3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5946	0.0000	0.5946	0.1453	0.0000	0.1453	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0885	0.8523	0.8031	1.8900e-003		0.0345	0.0345		0.0317	0.0317	0.0000	166.2440	166.2440	0.0538	0.0000	167.5881
Total	0.0885	0.8523	0.8031	1.8900e-003	0.5946	0.0345	0.6291	0.1453	0.0317	0.1771	0.0000	166.2440	166.2440	0.0538	0.0000	167.5881

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1200e-003	1.2000e-003	0.0147	5.0000e-005	6.7200e-003	4.0000e-005	6.7600e-003	1.7900e-003	4.0000e-005	1.8200e-003	0.0000	4.6907	4.6907	9.0000e-005	0.0000	4.6928
Total	2.1200e-003	1.2000e-003	0.0147	5.0000e-005	6.7200e-003	4.0000e-005	6.7600e-003	1.7900e-003	4.0000e-005	1.8200e-003	0.0000	4.6907	4.6907	9.0000e-005	0.0000	4.6928

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3.3 Grading - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.5946	0.0000	0.5946	0.1453	0.0000	0.1453	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0885	0.8523	0.8031	1.8900e-003		0.0345	0.0345		0.0317	0.0317	0.0000	166.2438	166.2438	0.0538	0.0000	167.5879
Total	0.0885	0.8523	0.8031	1.8900e-003	0.5946	0.0345	0.6291	0.1453	0.0317	0.1771	0.0000	166.2438	166.2438	0.0538	0.0000	167.5879

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1200e-003	1.2000e-003	0.0147	5.0000e-005	6.7200e-003	4.0000e-005	6.7600e-003	1.7900e-003	4.0000e-005	1.8200e-003	0.0000	4.6907	4.6907	9.0000e-005	0.0000	4.6928
Total	2.1200e-003	1.2000e-003	0.0147	5.0000e-005	6.7200e-003	4.0000e-005	6.7600e-003	1.7900e-003	4.0000e-005	1.8200e-003	0.0000	4.6907	4.6907	9.0000e-005	0.0000	4.6928

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3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1203	1.0973	1.4155	2.3700e-003		0.0464	0.0464		0.0437	0.0437	0.0000	204.0891	204.0891	0.0480	0.0000	205.2885
Total	0.1203	1.0973	1.4155	2.3700e-003		0.0464	0.0464		0.0437	0.0437	0.0000	204.0891	204.0891	0.0480	0.0000	205.2885

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0598	2.1411	0.5446	7.3300e-003	0.1928	3.1600e-003	0.1960	0.0557	3.0200e-003	0.0587	0.0000	706.9491	706.9491	0.0322	0.0000	707.7542
Worker	0.2921	0.1654	2.0223	7.1400e-003	0.9254	5.4900e-003	0.9309	0.2461	5.0500e-003	0.2511	0.0000	646.2346	646.2346	0.0120	0.0000	646.5333
Total	0.3518	2.3065	2.5669	0.0145	1.1182	8.6500e-003	1.1269	0.3018	8.0700e-003	0.3098	0.0000	1,353.1837	1,353.1837	0.0442	0.0000	1,354.2875

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3.4 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1203	1.0973	1.4155	2.3700e-003		0.0464	0.0464		0.0437	0.0437	0.0000	204.0889	204.0889	0.0480	0.0000	205.2883
Total	0.1203	1.0973	1.4155	2.3700e-003		0.0464	0.0464		0.0437	0.0437	0.0000	204.0889	204.0889	0.0480	0.0000	205.2883

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0598	2.1411	0.5446	7.3300e-003	0.1928	3.1600e-003	0.1960	0.0557	3.0200e-003	0.0587	0.0000	706.9491	706.9491	0.0322	0.0000	707.7542
Worker	0.2921	0.1654	2.0223	7.1400e-003	0.9254	5.4900e-003	0.9309	0.2461	5.0500e-003	0.2511	0.0000	646.2346	646.2346	0.0120	0.0000	646.5333
Total	0.3518	2.3065	2.5669	0.0145	1.1182	8.6500e-003	1.1269	0.3018	8.0700e-003	0.3098	0.0000	1,353.1837	1,353.1837	0.0442	0.0000	1,354.2875

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3.4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0857	3.1164	0.7758	0.0108	0.2859	4.4700e-003	0.2904	0.0826	4.2700e-003	0.0869	0.0000	1,043.2446	1,043.2446	0.0473	0.0000	1,044.4261
Worker	0.4106	0.2246	2.8000	0.0102	1.3724	7.7300e-003	1.3801	0.3649	7.1100e-003	0.3720	0.0000	925.2314	925.2314	0.0162	0.0000	925.6353
Total	0.4963	3.3411	3.5758	0.0210	1.6582	0.0122	1.6704	0.4475	0.0114	0.4589	0.0000	1,968.4760	1,968.4760	0.0634	0.0000	1,970.0614

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3.4 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0857	3.1164	0.7758	0.0108	0.2859	4.4700e-003	0.2904	0.0826	4.2700e-003	0.0869	0.0000	1,043.2446	1,043.2446	0.0473	0.0000	1,044.4261
Worker	0.4106	0.2246	2.8000	0.0102	1.3724	7.7300e-003	1.3801	0.3649	7.1100e-003	0.3720	0.0000	925.2314	925.2314	0.0162	0.0000	925.6353
Total	0.4963	3.3411	3.5758	0.0210	1.6582	0.0122	1.6704	0.4475	0.0114	0.4589	0.0000	1,968.4760	1,968.4760	0.0634	0.0000	1,970.0614

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3.4 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7699	201.7699	0.0474	0.0000	202.9557
Total	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7699	201.7699	0.0474	0.0000	202.9557

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0555	2.0448	0.4994	7.1800e-003	0.1906	2.8500e-003	0.1934	0.0550	2.7300e-003	0.0578	0.0000	692.6164	692.6164	0.0312	0.0000	693.3958
Worker	0.2579	0.1375	1.7497	6.6000e-003	0.9149	4.8000e-003	0.9197	0.2433	4.4200e-003	0.2477	0.0000	597.2351	597.2351	9.8700e-003	0.0000	597.4818
Total	0.3134	2.1823	2.2491	0.0138	1.1055	7.6500e-003	1.1131	0.2983	7.1500e-003	0.3055	0.0000	1,289.8515	1,289.8515	0.0410	0.0000	1,290.8776

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3.4 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7697	201.7697	0.0474	0.0000	202.9554
Total	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7697	201.7697	0.0474	0.0000	202.9554

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0555	2.0448	0.4994	7.1800e-003	0.1906	2.8500e-003	0.1934	0.0550	2.7300e-003	0.0578	0.0000	692.6164	692.6164	0.0312	0.0000	693.3958
Worker	0.2579	0.1375	1.7497	6.6000e-003	0.9149	4.8000e-003	0.9197	0.2433	4.4200e-003	0.2477	0.0000	597.2351	597.2351	9.8700e-003	0.0000	597.4818
Total	0.3134	2.1823	2.2491	0.0138	1.1055	7.6500e-003	1.1131	0.2983	7.1500e-003	0.3055	0.0000	1,289.8515	1,289.8515	0.0410	0.0000	1,290.8776

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3.5 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0197	0.1845	0.3134	4.9000e-004		9.0000e-003	9.0000e-003		8.2800e-003	8.2800e-003	0.0000	43.0414	43.0414	0.0139	0.0000	43.3894
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0197	0.1845	0.3134	4.9000e-004		9.0000e-003	9.0000e-003		8.2800e-003	8.2800e-003	0.0000	43.0414	43.0414	0.0139	0.0000	43.3894

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-003	5.3000e-004	6.7900e-003	3.0000e-005	3.5500e-003	2.0000e-005	3.5700e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.3182	2.3182	4.0000e-005	0.0000	2.3192
Total	1.0000e-003	5.3000e-004	6.7900e-003	3.0000e-005	3.5500e-003	2.0000e-005	3.5700e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.3182	2.3182	4.0000e-005	0.0000	2.3192

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3.5 Paving - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0197	0.1845	0.3134	4.9000e-004		9.0000e-003	9.0000e-003		8.2800e-003	8.2800e-003	0.0000	43.0414	43.0414	0.0139	0.0000	43.3894
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0197	0.1845	0.3134	4.9000e-004		9.0000e-003	9.0000e-003		8.2800e-003	8.2800e-003	0.0000	43.0414	43.0414	0.0139	0.0000	43.3894

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-003	5.3000e-004	6.7900e-003	3.0000e-005	3.5500e-003	2.0000e-005	3.5700e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.3182	2.3182	4.0000e-005	0.0000	2.3192
Total	1.0000e-003	5.3000e-004	6.7900e-003	3.0000e-005	3.5500e-003	2.0000e-005	3.5700e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.3182	2.3182	4.0000e-005	0.0000	2.3192

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3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.2826					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6700e-003	0.0246	0.0389	6.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	5.4895	5.4895	3.0000e-004	0.0000	5.4970
Total	8.2863	0.0246	0.0389	6.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	5.4895	5.4895	3.0000e-004	0.0000	5.4970

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0128	6.8000e-003	0.0865	3.3000e-004	0.0452	2.4000e-004	0.0455	0.0120	2.2000e-004	0.0122	0.0000	29.5185	29.5185	4.9000e-004	0.0000	29.5307
Total	0.0128	6.8000e-003	0.0865	3.3000e-004	0.0452	2.4000e-004	0.0455	0.0120	2.2000e-004	0.0122	0.0000	29.5185	29.5185	4.9000e-004	0.0000	29.5307

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3.6 Architectural Coating - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.2826					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6700e-003	0.0246	0.0389	6.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	5.4895	5.4895	3.0000e-004	0.0000	5.4970
Total	8.2863	0.0246	0.0389	6.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	5.4895	5.4895	3.0000e-004	0.0000	5.4970

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0128	6.8000e-003	0.0865	3.3000e-004	0.0452	2.4000e-004	0.0455	0.0120	2.2000e-004	0.0122	0.0000	29.5185	29.5185	4.9000e-004	0.0000	29.5307
Total	0.0128	6.8000e-003	0.0865	3.3000e-004	0.0452	2.4000e-004	0.0455	0.0120	2.2000e-004	0.0122	0.0000	29.5185	29.5185	4.9000e-004	0.0000	29.5307

4.0 Operational Detail - Mobile

Phase 3 Construction - Sacramento County, Annual

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	2.4596	11.9396	29.6989	0.1318	15.0479	0.0784	15.1263	4.0295	0.0729	4.1023	0.0000	12,187.91 21	12,187.91 21	0.4529	0.0000	12,199.23 41
Unmitigated	2.4596	11.9396	29.6989	0.1318	15.0479	0.0784	15.1263	4.0295	0.0729	4.1023	0.0000	12,187.91 21	12,187.91 21	0.4529	0.0000	12,199.23 41

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	685.36	744.64	631.28	2,526,954	2,526,954
Apartments Mid Rise	2,307.55	2,217.33	2033.42	8,307,129	8,307,129
City Park	42.49	511.42	376.32	424,859	424,859
Elementary School	967.50	0.00	0.00	2,167,433	2,167,433
Regional Shopping Center	6,746.60	7,895.26	3987.92	13,291,956	13,291,956
Single Family Housing	3,750.88	3,904.54	3396.28	13,708,970	13,708,970
Total	14,500.38	15,273.19	10,425.22	40,427,302	40,427,302

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
City Park	15.00	7.50	8.50	33.00	48.00	19.00	66	28	6
Elementary School	15.00	7.50	8.50	65.00	30.00	5.00	63	25	12
Regional Shopping Center	15.00	7.50	8.50	16.30	64.70	19.00	54	35	11
Single Family Housing	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Apartments Mid Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
City Park	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Elementary School	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Regional Shopping Center	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Single Family Housing	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,023.8071	2,023.8071	0.0994	0.0206	2,032.4226
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,023.8071	2,023.8071	0.0994	0.0206	2,032.4226
NaturalGas Mitigated	0.0897	0.7718	0.3652	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	887.5963	887.5963	0.0170	0.0163	892.8708
NaturalGas Unmitigated	0.0897	0.7718	0.3652	4.8900e-003		0.0620	0.0620		0.0620	0.0620	0.0000	887.5963	887.5963	0.0170	0.0163	892.8708

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.25827e+006	6.7800e-003	0.0580	0.0247	3.7000e-004		4.6900e-003	4.6900e-003		4.6900e-003	4.6900e-003	0.0000	67.1459	67.1459	1.2900e-003	1.2300e-003	67.5449
Apartments Mid Rise	3.38259e+006	0.0182	0.1559	0.0663	9.9000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	180.5079	180.5079	3.4600e-003	3.3100e-003	181.5806
City Park	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
Elementary School	956841	5.1600e-003	0.0469	0.0394	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	51.0607	51.0607	9.8000e-004	9.4000e-004	51.3641
Regional Shopping Center	856360	4.6200e-003	0.0420	0.0353	2.5000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	45.6986	45.6986	8.8000e-004	8.4000e-004	45.9702
Single Family Housing	1.01789e+007	0.0549	0.4690	0.1996	2.9900e-003		0.0379	0.0379		0.0379	0.0379	0.0000	543.1832	543.1832	0.0104	9.9600e-003	546.4110
Total		0.0897	0.7718	0.3653	4.8800e-003		0.0620	0.0620		0.0620	0.0620	0.0000	887.5963	887.5963	0.0170	0.0163	892.8708

Phase 3 Construction - Sacramento County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.25827e+006	6.7800e-003	0.0580	0.0247	3.7000e-004		4.6900e-003	4.6900e-003		4.6900e-003	4.6900e-003	0.0000	67.1459	67.1459	1.2900e-003	1.2300e-003	67.5449
Apartments Mid Rise	3.38259e+006	0.0182	0.1559	0.0663	9.9000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	180.5079	180.5079	3.4600e-003	3.3100e-003	181.5806
City Park	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
Elementary School	956841	5.1600e-003	0.0469	0.0394	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	51.0607	51.0607	9.8000e-004	9.4000e-004	51.3641
Regional Shopping Center	856360	4.6200e-003	0.0420	0.0353	2.5000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	45.6986	45.6986	8.8000e-004	8.4000e-004	45.9702
Single Family Housing	1.01789e+007	0.0549	0.4690	0.1996	2.9900e-003		0.0379	0.0379		0.0379	0.0379	0.0000	543.1832	543.1832	0.0104	9.9600e-003	546.4110
Total		0.0897	0.7718	0.3653	4.8800e-003		0.0620	0.0620		0.0620	0.0620	0.0000	887.5963	887.5963	0.0170	0.0163	892.8708

Phase 3 Construction - Sacramento County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	467401	125.1513	6.1500e-003	1.2700e-003	125.6841
Apartments Mid Rise	1.47699e+006	395.4794	0.0194	4.0200e-003	397.1630
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	458983	122.8972	6.0400e-003	1.2500e-003	123.4204
Regional Shopping Center	1.82806e+006	489.4816	0.0241	4.9800e-003	491.5653
Single Family Housing	3.32685e+006	890.7976	0.0438	9.0500e-003	894.5898
Total		2,023.8071	0.0994	0.0206	2,032.4226

Phase 3 Construction - Sacramento County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	467401	125.1513	6.1500e-003	1.2700e-003	125.6841
Apartments Mid Rise	1.47699e+006	395.4794	0.0194	4.0200e-003	397.1630
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	458983	122.8972	6.0400e-003	1.2500e-003	123.4204
Regional Shopping Center	1.82806e+006	489.4816	0.0241	4.9800e-003	491.5653
Single Family Housing	3.32685e+006	890.7976	0.0438	9.0500e-003	894.5898
Total		2,023.8071	0.0994	0.0206	2,032.4226

6.0 Area Detail

6.1 Mitigation Measures Area

Phase 3 Construction - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.4916	0.1003	8.7030	4.6000e-004		0.0484	0.0484		0.0484	0.0484	0.0000	14.2576	14.2576	0.0136	0.0000	14.5981
Unmitigated	6.4916	0.1003	8.7030	4.6000e-004		0.0484	0.0484		0.0484	0.0484	0.0000	14.2576	14.2576	0.0136	0.0000	14.5981

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	0.8283					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.4023					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2610	0.1003	8.7030	4.6000e-004		0.0484	0.0484		0.0484	0.0484	0.0000	14.2576	14.2576	0.0136	0.0000	14.5981
Total	6.4916	0.1003	8.7030	4.6000e-004		0.0484	0.0484		0.0484	0.0484	0.0000	14.2576	14.2576	0.0136	0.0000	14.5981

Phase 3 Construction - Sacramento County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.8283					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.4023					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2610	0.1003	8.7030	4.6000e-004		0.0484	0.0484		0.0484	0.0484	0.0000	14.2576	14.2576	0.0136	0.0000	14.5981
Total	6.4916	0.1003	8.7030	4.6000e-004		0.0484	0.0484		0.0484	0.0484	0.0000	14.2576	14.2576	0.0136	0.0000	14.5981

7.0 Water Detail

7.1 Mitigation Measures Water

Phase 3 Construction - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	184.4866	0.0914	0.0544	202.9798
Unmitigated	184.4866	0.0914	0.0544	202.9798

Phase 3 Construction - Sacramento County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	6.77602 / 4.27184	15.4409	8.8900e-003	5.3500e-003	17.2564
Apartments Mid Rise	22.6084 / 14.2532	51.5193	0.0297	0.0178	57.5765
City Park	0 / 26.7845	25.1014	1.2300e-003	2.6000e-004	25.2082
Elementary School	1.81818 / 4.67532	7.4505	2.5500e-003	1.4700e-003	7.9517
Regional Shopping Center	11.7035 / 7.17309	26.4771	0.0154	9.2300e-003	29.6119
Single Family Housing	25.6707 / 16.1837	58.4974	0.0337	0.0203	65.3751
Total		184.4866	0.0914	0.0544	202.9798

Phase 3 Construction - Sacramento County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	6.77602 / 4.27184	15.4409	8.8900e-003	5.3500e-003	17.2564
Apartments Mid Rise	22.6084 / 14.2532	51.5193	0.0297	0.0178	57.5765
City Park	0 / 26.7845	25.1014	1.2300e-003	2.6000e-004	25.2082
Elementary School	1.81818 / 4.67532	7.4505	2.5500e-003	1.4700e-003	7.9517
Regional Shopping Center	11.7035 / 7.17309	26.4771	0.0154	9.2300e-003	29.6119
Single Family Housing	25.6707 / 16.1837	58.4974	0.0337	0.0203	65.3751
Total		184.4866	0.0914	0.0544	202.9798

8.0 Waste Detail

8.1 Mitigation Measures Waste

Phase 3 Construction - Sacramento County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	180.8426	10.6875	0.0000	448.0299
Unmitigated	180.8426	10.6875	0.0000	448.0299

Phase 3 Construction - Sacramento County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	47.84	9.7111	0.5739	0.0000	24.0588
Apartments Mid Rise	159.62	32.4014	1.9149	0.0000	80.2731
City Park	1.93	0.3918	0.0232	0.0000	0.9706
Elementary School	136.88	27.7854	1.6421	0.0000	68.8372
Regional Shopping Center	165.9	33.6762	1.9902	0.0000	83.4314
Single Family Housing	378.72	76.8767	4.5433	0.0000	190.4589
Total		180.8426	10.6875	0.0000	448.0299

Phase 3 Construction - Sacramento County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	47.84	9.7111	0.5739	0.0000	24.0588
Apartments Mid Rise	159.62	32.4014	1.9149	0.0000	80.2731
City Park	1.93	0.3918	0.0232	0.0000	0.9706
Elementary School	136.88	27.7854	1.6421	0.0000	68.8372
Regional Shopping Center	165.9	33.6762	1.9902	0.0000	83.4314
Single Family Housing	378.72	76.8767	4.5433	0.0000	190.4589
Total		180.8426	10.6875	0.0000	448.0299

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Phase 3 Construction - Sacramento County, Annual

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

Equipment Type	Number
----------------	--------

11.0 Vegetation

Phase 3 Construction - Sacramento County, Summer

Phase 3 Construction

Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	394.00	Dwelling Unit	62.81	709,200.00	1052
Apartments Low Rise	104.00	Dwelling Unit	10.37	104,000.00	278
Apartments Mid Rise	347.00	Dwelling Unit	17.36	347,000.00	926
Regional Shopping Center	158.00	1000sqft	17.96	158,000.00	0
Elementary School	750.00	Student	9.98	62,702.53	0
City Park	22.48	Acre	22.48	979,228.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2032
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See Appendix for construction phasing assumptions

Construction Phase - Construction phasing adjusted proportionally to CalEEMod defaults - see Appendix for details

Vehicle Trips - Construction run only

Phase 3 Construction - Sacramento County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	43.00
tblConstructionPhase	NumDays	3,100.00	611.00
tblConstructionPhase	NumDays	310.00	61.00
tblConstructionPhase	NumDays	220.00	43.00
tblConstructionPhase	NumDays	120.00	24.00
tblConstructionPhase	PhaseEndDate	12/25/2041	12/29/2028
tblConstructionPhase	PhaseEndDate	4/18/2040	8/31/2028
tblConstructionPhase	PhaseEndDate	5/31/2028	4/29/2026
tblConstructionPhase	PhaseEndDate	2/20/2041	10/31/2028
tblConstructionPhase	PhaseEndDate	3/24/2027	2/3/2026
tblConstructionPhase	PhaseStartDate	2/21/2041	11/1/2028
tblConstructionPhase	PhaseStartDate	6/1/2028	4/30/2026
tblConstructionPhase	PhaseStartDate	3/25/2027	2/4/2026
tblConstructionPhase	PhaseStartDate	4/19/2040	9/1/2028
tblConstructionPhase	PhaseStartDate	10/8/2026	1/1/2026
tblGrading	AcresOfGrading	152.50	775.00
tblLandUse	LotAcreage	127.92	62.81
tblLandUse	LotAcreage	6.50	10.37
tblLandUse	LotAcreage	9.13	17.36
tblLandUse	LotAcreage	3.63	17.96
tblLandUse	LotAcreage	1.44	9.98
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

Phase 3 Construction - Sacramento County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	5.7208	38.0995	49.8744	0.2009	19.7238	1.1322	20.8560	9.9851	1.0416	10.9861	0.0000	20,447.89 21	20,447.89 21	1.9468	0.0000	20,476.95 45
2027	5.5016	37.5226	47.8273	0.1973	13.1471	0.6203	13.7673	3.5371	0.5828	4.1199	0.0000	20,094.631 1	20,094.631 1	1.1435	0.0000	20,123.21 77
2028	386.0656	37.0294	46.0317	0.1942	13.1469	0.6149	13.7618	3.5371	0.5778	4.1149	0.0000	19,783.26 93	19,783.26 93	1.1265	0.0000	19,811.432 9
Maximum	386.0656	38.0995	49.8744	0.2009	19.7238	1.1322	20.8560	9.9851	1.0416	10.9861	0.0000	20,447.89 21	20,447.89 21	1.9468	0.0000	20,476.95 45

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	5.7208	38.0995	49.8744	0.2009	19.7238	1.1322	20.8560	9.9851	1.0416	10.9861	0.0000	20,447.89 21	20,447.89 21	1.9468	0.0000	20,476.95 45
2027	5.5016	37.5226	47.8273	0.1973	13.1471	0.6203	13.7673	3.5371	0.5828	4.1199	0.0000	20,094.631 1	20,094.631 1	1.1435	0.0000	20,123.21 77
2028	386.0656	37.0294	46.0317	0.1942	13.1469	0.6149	13.7618	3.5371	0.5778	4.1149	0.0000	19,783.26 93	19,783.26 93	1.1265	0.0000	19,811.432 9
Maximum	386.0656	38.0995	49.8744	0.2009	19.7238	1.1322	20.8560	9.9851	1.0416	10.9861	0.0000	20,447.89 21	20,447.89 21	1.9468	0.0000	20,476.95 45

Phase 3 Construction - Sacramento County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	36.2285	0.8024	69.6239	3.6900e-003		0.3869	0.3869		0.3869	0.3869	0.0000	125.7303	125.7303	0.1201	0.0000	128.7333
Energy	0.4914	4.2288	2.0013	0.0268		0.3395	0.3395		0.3395	0.3395		5,361.1365	5,361.1365	0.1028	0.0983	5,392.9951
Mobile	19.8725	73.5504	212.9052	0.8925	97.6992	0.4924	98.1916	26.0873	0.4577	26.5449		90,857.3681	90,857.3681	3.1918		90,937.1629
Total	56.5924	78.5816	284.5304	0.9230	97.6992	1.2188	98.9180	26.0873	1.1842	27.2714	0.0000	96,344.2350	96,344.2350	3.4147	0.0983	96,458.8913

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	36.2285	0.8024	69.6239	3.6900e-003		0.3869	0.3869		0.3869	0.3869	0.0000	125.7303	125.7303	0.1201	0.0000	128.7333
Energy	0.4914	4.2288	2.0013	0.0268		0.3395	0.3395		0.3395	0.3395		5,361.1365	5,361.1365	0.1028	0.0983	5,392.9951
Mobile	19.8725	73.5504	212.9052	0.8925	97.6992	0.4924	98.1916	26.0873	0.4577	26.5449		90,857.3681	90,857.3681	3.1918		90,937.1629
Total	56.5924	78.5816	284.5304	0.9230	97.6992	1.2188	98.9180	26.0873	1.1842	27.2714	0.0000	96,344.2350	96,344.2350	3.4147	0.0983	96,458.8913

Phase 3 Construction - Sacramento County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2026	2/3/2026	5	24	
2	Grading	Grading	2/4/2026	4/29/2026	5	61	
3	Building Construction	Building Construction	4/30/2026	8/31/2028	5	611	
4	Paving	Paving	9/1/2028	10/31/2028	5	43	
5	Architectural Coating	Architectural Coating	11/1/2028	12/29/2028	5	43	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 2,349,405; Residential Outdoor: 783,135; Non-Residential Indoor: 331,054; Non-Residential Outdoor: 110,351; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase 3 Construction - Sacramento County, Summer

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	191.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	955.00	287.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT

Phase 3 Construction - Sacramento County, Summer

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0695	0.0321	0.5262	1.6900e-003	0.2053	1.1800e-003	0.2065	0.0545	1.0800e-003	0.0555		168.8629	168.8629	3.2000e-003		168.9430
Total	0.0695	0.0321	0.5262	1.6900e-003	0.2053	1.1800e-003	0.2065	0.0545	1.0800e-003	0.0555		168.8629	168.8629	3.2000e-003		168.9430

Phase 3 Construction - Sacramento County, Summer

3.2 Site Preparation - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0695	0.0321	0.5262	1.6900e-003	0.2053	1.1800e-003	0.2065	0.0545	1.0800e-003	0.0555		168.8629	168.8629	3.2000e-003		168.9430
Total	0.0695	0.0321	0.5262	1.6900e-003	0.2053	1.1800e-003	0.2065	0.0545	1.0800e-003	0.0555		168.8629	168.8629	3.2000e-003		168.9430

Phase 3 Construction - Sacramento County, Summer

3.3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.4957	0.0000	19.4957	4.7651	0.0000	4.7651			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	19.4957	1.1309	20.6266	4.7651	1.0404	5.8055		6,008.2814	6,008.2814	1.9432		6,056.8614

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0357	0.5847	1.8800e-003	0.2281	1.3100e-003	0.2294	0.0605	1.2000e-003	0.0617		187.6255	187.6255	3.5600e-003		187.7144
Total	0.0772	0.0357	0.5847	1.8800e-003	0.2281	1.3100e-003	0.2294	0.0605	1.2000e-003	0.0617		187.6255	187.6255	3.5600e-003		187.7144

Phase 3 Construction - Sacramento County, Summer

3.3 Grading - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.4957	0.0000	19.4957	4.7651	0.0000	4.7651			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	19.4957	1.1309	20.6266	4.7651	1.0404	5.8055	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0357	0.5847	1.8800e-003	0.2281	1.3100e-003	0.2294	0.0605	1.2000e-003	0.0617		187.6255	187.6255	3.5600e-003		187.7144
Total	0.0772	0.0357	0.5847	1.8800e-003	0.2281	1.3100e-003	0.2294	0.0605	1.2000e-003	0.0617		187.6255	187.6255	3.5600e-003		187.7144

Phase 3 Construction - Sacramento County, Summer

3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6685	23.9245	5.8724	0.0841	2.2549	0.0350	2.2900	0.6485	0.0335	0.6820		8,932.301 0	8,932.301 0	0.3917		8,942.093 6
Worker	3.6848	1.7053	27.9174	0.0899	10.8923	0.0624	10.9547	2.8887	0.0574	2.9461		8,959.1168	8,959.1168	0.1698		8,963.362 8
Total	4.3534	25.6298	33.7898	0.1739	13.1472	0.0974	13.2446	3.5372	0.0909	3.6281		17,891.41 77	17,891.41 77	0.5616		17,905.45 64

Phase 3 Construction - Sacramento County, Summer

3.4 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6685	23.9245	5.8724	0.0841	2.2549	0.0350	2.2900	0.6485	0.0335	0.6820		8,932.301 0	8,932.301 0	0.3917		8,942.093 6
Worker	3.6848	1.7053	27.9174	0.0899	10.8923	0.0624	10.9547	2.8887	0.0574	2.9461		8,959.1168	8,959.116 8	0.1698		8,963.362 8
Total	4.3534	25.6298	33.7898	0.1739	13.1472	0.0974	13.2446	3.5372	0.0909	3.6281		17,891.41 77	17,891.41 77	0.5616		17,905.45 64

Phase 3 Construction - Sacramento County, Summer

3.4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6467	23.4908	5.6430	0.0836	2.2548	0.0335	2.2882	0.6485	0.0320	0.6805		8,888.256 4	8,888.256 4	0.3876		8,897.946 8
Worker	3.4875	1.5621	26.0997	0.0868	10.8923	0.0592	10.9515	2.8887	0.0545	2.9432		8,649.900 3	8,649.900 3	0.1549		8,653.772 9
Total	4.1342	25.0529	31.7427	0.1704	13.1471	0.0927	13.2398	3.5371	0.0865	3.6237		17,538.15 67	17,538.15 67	0.5425		17,551.71 97

Phase 3 Construction - Sacramento County, Summer

3.4 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6467	23.4908	5.6430	0.0836	2.2548	0.0335	2.2882	0.6485	0.0320	0.6805		8,888.256 4	8,888.256 4	0.3876		8,897.946 8
Worker	3.4875	1.5621	26.0997	0.0868	10.8923	0.0592	10.9515	2.8887	0.0545	2.9432		8,649.900 3	8,649.900 3	0.1549		8,653.772 9
Total	4.1342	25.0529	31.7427	0.1704	13.1471	0.0927	13.2398	3.5371	0.0865	3.6237		17,538.15 67	17,538.15 67	0.5425		17,551.71 97

Phase 3 Construction - Sacramento County, Summer

3.4 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6276	23.1248	5.4511	0.0833	2.2546	0.0321	2.2868	0.6484	0.0307	0.6792		8,851.057 2	8,851.057 2	0.3836		8,860.646 0
Worker	3.2838	1.4350	24.4960	0.0840	10.8923	0.0552	10.9475	2.8887	0.0508	2.9395		8,375.737 7	8,375.737 7	0.1420		8,379.288 8
Total	3.9113	24.5598	29.9470	0.1672	13.1469	0.0874	13.2343	3.5371	0.0816	3.6186		17,226.79 50	17,226.79 50	0.5256		17,239.93 48

Phase 3 Construction - Sacramento County, Summer

3.4 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.6276	23.1248	5.4511	0.0833	2.2546	0.0321	2.2868	0.6484	0.0307	0.6792		8,851.057 2	8,851.057 2	0.3836		8,860.646 0
Worker	3.2838	1.4350	24.4960	0.0840	10.8923	0.0552	10.9475	2.8887	0.0508	2.9395		8,375.737 7	8,375.737 7	0.1420		8,379.288 8
Total	3.9113	24.5598	29.9470	0.1672	13.1469	0.0874	13.2343	3.5371	0.0816	3.6186		17,226.79 50	17,226.79 50	0.5256		17,239.93 48

Phase 3 Construction - Sacramento County, Summer

3.5 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0516	0.0225	0.3848	1.3200e-003	0.1711	8.7000e-004	0.1720	0.0454	8.0000e-004	0.0462		131.5561	131.5561	2.2300e-003		131.6119
Total	0.0516	0.0225	0.3848	1.3200e-003	0.1711	8.7000e-004	0.1720	0.0454	8.0000e-004	0.0462		131.5561	131.5561	2.2300e-003		131.6119

Phase 3 Construction - Sacramento County, Summer

3.5 Paving - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0516	0.0225	0.3848	1.3200e-003	0.1711	8.7000e-004	0.1720	0.0454	8.0000e-004	0.0462		131.5561	131.5561	2.2300e-003		131.6119
Total	0.0516	0.0225	0.3848	1.3200e-003	0.1711	8.7000e-004	0.1720	0.0454	8.0000e-004	0.0462		131.5561	131.5561	2.2300e-003		131.6119

Phase 3 Construction - Sacramento County, Summer

3.6 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	385.2380					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	385.4089	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6568	0.2870	4.8992	0.0168	2.1785	0.0110	2.1895	0.5777	0.0102	0.5879		1,675.1475	1,675.1475	0.0284		1,675.8578
Total	0.6568	0.2870	4.8992	0.0168	2.1785	0.0110	2.1895	0.5777	0.0102	0.5879		1,675.1475	1,675.1475	0.0284		1,675.8578

Phase 3 Construction - Sacramento County, Summer

3.6 Architectural Coating - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	385.2380					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	385.4089	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6568	0.2870	4.8992	0.0168	2.1785	0.0110	2.1895	0.5777	0.0102	0.5879		1,675.1475	1,675.1475	0.0284		1,675.8578
Total	0.6568	0.2870	4.8992	0.0168	2.1785	0.0110	2.1895	0.5777	0.0102	0.5879		1,675.1475	1,675.1475	0.0284		1,675.8578

4.0 Operational Detail - Mobile

Phase 3 Construction - Sacramento County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	19.8725	73.5504	212.9052	0.8925	97.6992	0.4924	98.1916	26.0873	0.4577	26.5449		90,857.36 81	90,857.36 81	3.1918		90,937.16 29
Unmitigated	19.8725	73.5504	212.9052	0.8925	97.6992	0.4924	98.1916	26.0873	0.4577	26.5449		90,857.36 81	90,857.36 81	3.1918		90,937.16 29

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	685.36	744.64	631.28	2,526,954	2,526,954
Apartments Mid Rise	2,307.55	2,217.33	2033.42	8,307,129	8,307,129
City Park	42.49	511.42	376.32	424,859	424,859
Elementary School	967.50	0.00	0.00	2,167,433	2,167,433
Regional Shopping Center	6,746.60	7,895.26	3987.92	13,291,956	13,291,956
Single Family Housing	3,750.88	3,904.54	3396.28	13,708,970	13,708,970
Total	14,500.38	15,273.19	10,425.22	40,427,302	40,427,302

4.3 Trip Type Information

Phase 3 Construction - Sacramento County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
City Park	15.00	7.50	8.50	33.00	48.00	19.00	66	28	6
Elementary School	15.00	7.50	8.50	65.00	30.00	5.00	63	25	12
Regional Shopping Center	15.00	7.50	8.50	16.30	64.70	19.00	54	35	11
Single Family Housing	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Apartments Mid Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
City Park	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Elementary School	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Regional Shopping Center	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Single Family Housing	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Phase 3 Construction - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.4914	4.2288	2.0013	0.0268		0.3395	0.3395		0.3395	0.3395		5,361.1365	5,361.1365	0.1028	0.0983	5,392.9951
NaturalGas Unmitigated	0.4914	4.2288	2.0013	0.0268		0.3395	0.3395		0.3395	0.3395		5,361.1365	5,361.1365	0.1028	0.0983	5,392.9951

Phase 3 Construction - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	3447.31	0.0372	0.3177	0.1352	2.0300e-003		0.0257	0.0257		0.0257	0.0257		405.5655	405.5655	7.7700e-003	7.4400e-003	407.9756
Apartments Mid Rise	9267.37	0.0999	0.8541	0.3634	5.4500e-003		0.0691	0.0691		0.0691	0.0691		1,090.2790	1,090.2790	0.0209	0.0200	1,096.7580
City Park	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
Elementary School	2621.48	0.0283	0.2570	0.2159	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.4095	308.4095	5.9100e-003	5.6500e-003	310.2423
Regional Shopping Center	2346.19	0.0253	0.2300	0.1932	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.0226	276.0226	5.2900e-003	5.0600e-003	277.6628
Single Family Housing	27887.3	0.3008	2.5700	1.0936	0.0164		0.2078	0.2078		0.2078	0.2078		3,280.8599	3,280.8599	0.0629	0.0602	3,300.3564
Total		0.4914	4.2288	2.0014	0.0268		0.3395	0.3395		0.3395	0.3395		5,361.1365	5,361.1365	0.1028	0.0983	5,392.9951

Phase 3 Construction - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	3.44731	0.0372	0.3177	0.1352	2.0300e-003		0.0257	0.0257		0.0257	0.0257		405.5655	405.5655	7.7700e-003	7.4400e-003	407.9756
Apartments Mid Rise	9.26737	0.0999	0.8541	0.3634	5.4500e-003		0.0691	0.0691		0.0691	0.0691		1,090.2790	1,090.2790	0.0209	0.0200	1,096.7580
City Park	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
Elementary School	2.62148	0.0283	0.2570	0.2159	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.4095	308.4095	5.9100e-003	5.6500e-003	310.2423
Regional Shopping Center	2.34619	0.0253	0.2300	0.1932	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.0226	276.0226	5.2900e-003	5.0600e-003	277.6628
Single Family Housing	27.8873	0.3008	2.5700	1.0936	0.0164		0.2078	0.2078		0.2078	0.2078		3,280.8599	3,280.8599	0.0629	0.0602	3,300.3564
Total		0.4914	4.2288	2.0014	0.0268		0.3395	0.3395		0.3395	0.3395		5,361.1365	5,361.1365	0.1028	0.0983	5,392.9951

6.0 Area Detail

6.1 Mitigation Measures Area

Phase 3 Construction - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	36.2285	0.8024	69.6239	3.6900e-003		0.3869	0.3869		0.3869	0.3869	0.0000	125.7303	125.7303	0.1201	0.0000	128.7333
Unmitigated	36.2285	0.8024	69.6239	3.6900e-003		0.3869	0.3869		0.3869	0.3869	0.0000	125.7303	125.7303	0.1201	0.0000	128.7333

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	4.5384					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	29.6018					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0883	0.8024	69.6239	3.6900e-003		0.3869	0.3869		0.3869	0.3869		125.7303	125.7303	0.1201		128.7333
Total	36.2285	0.8024	69.6239	3.6900e-003		0.3869	0.3869		0.3869	0.3869	0.0000	125.7303	125.7303	0.1201	0.0000	128.7333

Phase 3 Construction - Sacramento County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.5384					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	29.6018					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0883	0.8024	69.6239	3.6900e-003		0.3869	0.3869		0.3869	0.3869		125.7303	125.7303	0.1201		128.7333
Total	36.2285	0.8024	69.6239	3.6900e-003		0.3869	0.3869		0.3869	0.3869	0.0000	125.7303	125.7303	0.1201	0.0000	128.7333

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Phase 3 Construction - Sacramento County, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Phase 4 Construction - Sacramento County, Annual

Phase 4 Construction Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	569.00	Dwelling Unit	87.33	1,024,200.00	1519
Apartments Low Rise	69.00	Dwelling Unit	6.87	69,000.00	184
Apartments Mid Rise	234.00	Dwelling Unit	11.71	234,000.00	625
Regional Shopping Center	27.00	1000sqft	3.10	27,000.00	0
General Office Building	250.00	1000sqft	16.44	250,000.00	0
Research & Development	39.00	1000sqft	2.56	39,000.00	0
General Light Industry	36.00	1000sqft	2.35	36,000.00	0
City Park	5.02	Acre	5.02	218,671.20	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2032
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - See Appendix for construction phasing assumptions

Construction Phase - Construction phasing adjusted proportionally to CalEEMod defaults - see Appendix for details

Vehicle Trips - Construction run only

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	58.00
tblConstructionPhase	NumDays	3,100.00	816.00
tblConstructionPhase	NumDays	310.00	82.00
tblConstructionPhase	NumDays	220.00	58.00
tblConstructionPhase	NumDays	120.00	32.00
tblConstructionPhase	PhaseEndDate	12/23/2044	12/30/2032
tblConstructionPhase	PhaseEndDate	4/17/2043	7/23/2032
tblConstructionPhase	PhaseEndDate	5/30/2031	6/7/2029
tblConstructionPhase	PhaseEndDate	2/19/2044	10/13/2032
tblConstructionPhase	PhaseEndDate	3/22/2030	2/13/2029
tblConstructionPhase	PhaseStartDate	2/20/2044	10/12/2032
tblConstructionPhase	PhaseStartDate	5/31/2031	6/8/2029
tblConstructionPhase	PhaseStartDate	3/23/2030	2/14/2029
tblConstructionPhase	PhaseStartDate	4/18/2043	7/24/2032
tblConstructionPhase	PhaseStartDate	10/6/2029	1/1/2029
tblGrading	AcresOfGrading	205.00	775.00
tblLandUse	LotAcreage	184.74	87.33
tblLandUse	LotAcreage	4.31	6.87
tblLandUse	LotAcreage	6.16	11.71
tblLandUse	LotAcreage	0.62	3.10
tblLandUse	LotAcreage	5.74	16.44
tblLandUse	LotAcreage	0.90	2.56
tblLandUse	LotAcreage	0.83	2.35
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2029	0.4262	3.6464	3.7509	0.0127	1.5747	0.1066	1.6813	0.5083	0.0989	0.6072	0.0000	1,158.725 2	1,158.725 2	0.1518	0.0000	1,162.520 1
2030	0.4439	3.0895	4.0928	0.0172	1.0930	0.0260	1.1190	0.2949	0.0256	0.3205	0.0000	1,574.663 9	1,574.663 9	0.0518	0.0000	1,575.957 7
2031	0.4251	3.0540	3.9876	0.0170	1.0930	0.0256	1.1186	0.2949	0.0252	0.3201	0.0000	1,559.402 5	1,559.402 5	0.0508	0.0000	1,560.671 5
2032	10.2194	1.9380	2.7727	0.0107	0.6606	0.0246	0.6852	0.1781	0.0243	0.2024	0.0000	974.7007	974.7007	0.0320	0.0000	975.5011
Maximum	10.2194	3.6464	4.0928	0.0172	1.5747	0.1066	1.6813	0.5083	0.0989	0.6072	0.0000	1,574.663 9	1,574.663 9	0.1518	0.0000	1,575.957 7

Phase 4 Construction - Sacramento County, Annual

2.1 Overall Construction

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					
2029	0.4262	3.6464	3.7509	0.0127	1.5747	0.1066	1.6813	0.5083	0.0989	0.6072	0.0000	1,158.7247	1,158.7247	0.1518	0.0000	1,162.5196
2030	0.4439	3.0895	4.0928	0.0172	1.0930	0.0260	1.1190	0.2949	0.0256	0.3205	0.0000	1,574.6635	1,574.6635	0.0518	0.0000	1,575.9573
2031	0.4251	3.0540	3.9876	0.0170	1.0930	0.0256	1.1186	0.2949	0.0252	0.3201	0.0000	1,559.4021	1,559.4021	0.0508	0.0000	1,560.6711
2032	10.2194	1.9380	2.7727	0.0107	0.6606	0.0246	0.6852	0.1781	0.0243	0.2024	0.0000	974.7004	974.7004	0.0320	0.0000	975.5008
Maximum	10.2194	3.6464	4.0928	0.0172	1.5747	0.1066	1.6813	0.5083	0.0989	0.6072	0.0000	1,574.6635	1,574.6635	0.1518	0.0000	1,575.9573

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2029	3-31-2029	0.9451	0.9451
2	4-1-2029	6-30-2029	1.0139	1.0139
3	7-1-2029	9-30-2029	1.0504	1.0504
4	10-1-2029	12-31-2029	1.0646	1.0646
5	1-1-2030	3-31-2030	0.8792	0.8792
6	4-1-2030	6-30-2030	0.8755	0.8755
7	7-1-2030	9-30-2030	0.8851	0.8851
8	10-1-2030	12-31-2030	0.8987	0.8987

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9	1-1-2031	3-31-2031	0.8651	0.8651
10	4-1-2031	6-30-2031	0.8619	0.8619
11	7-1-2031	9-30-2031	0.8713	0.8713
12	10-1-2031	12-31-2031	0.8843	0.8843
13	1-1-2032	3-31-2032	0.8619	0.8619
14	4-1-2032	6-30-2032	0.8496	0.8496
15	7-1-2032	9-30-2032	0.4256	0.4256
		Highest	1.0646	1.0646

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	7.8225	0.1034	8.9734	4.8000e-004		0.0499	0.0499		0.0499	0.0499	0.0000	14.6982	14.6982	0.0140	0.0000	15.0486
Energy	0.1290	1.1203	0.6008	7.0400e-003		0.0891	0.0891		0.0891	0.0891	0.0000	4,267.9029	4,267.9029	0.1714	0.0538	4,288.2234
Mobile	2.0724	10.1014	26.6637	0.1206	13.8945	0.0709	13.9654	3.7206	0.0659	3.7866	0.0000	11,149.1851	11,149.1851	0.4045	0.0000	11,159.2985
Waste						0.0000	0.0000		0.0000	0.0000	201.9963	0.0000	201.9963	11.9376	0.0000	500.4373
Water						0.0000	0.0000		0.0000	0.0000	46.2591	240.2805	286.5396	0.1710	0.1030	321.5213
Total	10.0239	11.3252	36.2379	0.1281	13.8945	0.2099	14.1045	3.7206	0.2049	3.9256	248.2554	15,672.0667	15,920.3221	12.6986	0.1569	16,284.5291

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.8225	0.1034	8.9734	4.8000e-004		0.0499	0.0499		0.0499	0.0499	0.0000	14.6982	14.6982	0.0140	0.0000	15.0486
Energy	0.1290	1.1203	0.6008	7.0400e-003		0.0891	0.0891		0.0891	0.0891	0.0000	4,267.9029	4,267.9029	0.1714	0.0538	4,288.2234
Mobile	2.0724	10.1014	26.6637	0.1206	13.8945	0.0709	13.9654	3.7206	0.0659	3.7866	0.0000	11,149.1851	11,149.1851	0.4045	0.0000	11,159.2985
Waste						0.0000	0.0000		0.0000	0.0000	201.9963	0.0000	201.9963	11.9376	0.0000	500.4373
Water						0.0000	0.0000		0.0000	0.0000	46.2591	240.2805	286.5396	0.1710	0.1030	321.5213
Total	10.0239	11.3252	36.2379	0.1281	13.8945	0.2099	14.1045	3.7206	0.2049	3.9256	248.2554	15,672.0667	15,920.3221	12.6986	0.1569	16,284.5291

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2029	2/13/2029	5	32	
2	Grading	Grading	2/14/2029	6/7/2029	5	82	
3	Building Construction	Building Construction	6/8/2029	7/23/2032	5	816	
4	Paving	Paving	7/24/2032	10/13/2032	5	58	
5	Architectural Coating	Architectural Coating	10/12/2032	12/30/2032	5	58	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 2,687,580; Residential Outdoor: 895,860; Non-Residential Indoor: 528,000; Non-Residential Outdoor: 176,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	126.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	631.00	187.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

3.2 Site Preparation - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2891	0.0000	0.2891	0.1589	0.0000	0.1589	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0396	0.4037	0.2866	6.1000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	53.5472	53.5472	0.0173	0.0000	53.9801
Total	0.0396	0.4037	0.2866	6.1000e-004	0.2891	0.0174	0.3065	0.1589	0.0160	0.1749	0.0000	53.5472	53.5472	0.0173	0.0000	53.9801

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.3000e-004	4.4000e-004	5.6800e-003	2.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	1.0000e-005	8.6000e-004	0.0000	2.0101	2.0101	3.0000e-005	0.0000	2.0108
Total	8.3000e-004	4.4000e-004	5.6800e-003	2.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	1.0000e-005	8.6000e-004	0.0000	2.0101	2.0101	3.0000e-005	0.0000	2.0108

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3.2 Site Preparation - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2891	0.0000	0.2891	0.1589	0.0000	0.1589	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0396	0.4037	0.2866	6.1000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	53.5471	53.5471	0.0173	0.0000	53.9801
Total	0.0396	0.4037	0.2866	6.1000e-004	0.2891	0.0174	0.3065	0.1589	0.0160	0.1749	0.0000	53.5471	53.5471	0.0173	0.0000	53.9801

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.3000e-004	4.4000e-004	5.6800e-003	2.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	1.0000e-005	8.6000e-004	0.0000	2.0101	2.0101	3.0000e-005	0.0000	2.0108
Total	8.3000e-004	4.4000e-004	5.6800e-003	2.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	1.0000e-005	8.6000e-004	0.0000	2.0101	2.0101	3.0000e-005	0.0000	2.0108

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3.3 Grading - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.6579	0.0000	0.6579	0.1801	0.0000	0.1801	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1190	1.1457	1.0796	2.5400e-003		0.0464	0.0464		0.0427	0.0427	0.0000	223.4755	223.4755	0.0723	0.0000	225.2824
Total	0.1190	1.1457	1.0796	2.5400e-003	0.6579	0.0464	0.7042	0.1801	0.0427	0.2228	0.0000	223.4755	223.4755	0.0723	0.0000	225.2824

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3700e-003	1.2400e-003	0.0162	6.0000e-005	9.0300e-003	4.0000e-005	9.0700e-003	2.4000e-003	4.0000e-005	2.4400e-003	0.0000	5.7231	5.7231	9.0000e-005	0.0000	5.7253
Total	2.3700e-003	1.2400e-003	0.0162	6.0000e-005	9.0300e-003	4.0000e-005	9.0700e-003	2.4000e-003	4.0000e-005	2.4400e-003	0.0000	5.7231	5.7231	9.0000e-005	0.0000	5.7253

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3.3 Grading - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.6579	0.0000	0.6579	0.1801	0.0000	0.1801	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1190	1.1457	1.0796	2.5400e-003		0.0464	0.0464		0.0427	0.0427	0.0000	223.4752	223.4752	0.0723	0.0000	225.2821
Total	0.1190	1.1457	1.0796	2.5400e-003	0.6579	0.0464	0.7042	0.1801	0.0427	0.2228	0.0000	223.4752	223.4752	0.0723	0.0000	225.2821

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3700e-003	1.2400e-003	0.0162	6.0000e-005	9.0300e-003	4.0000e-005	9.0700e-003	2.4000e-003	4.0000e-005	2.4400e-003	0.0000	5.7231	5.7231	9.0000e-005	0.0000	5.7253
Total	2.3700e-003	1.2400e-003	0.0162	6.0000e-005	9.0300e-003	4.0000e-005	9.0700e-003	2.4000e-003	4.0000e-005	2.4400e-003	0.0000	5.7231	5.7231	9.0000e-005	0.0000	5.7253

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3.4 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1005	0.9165	1.1822	1.9800e-003		0.0388	0.0388		0.0365	0.0365	0.0000	170.4608	170.4608	0.0401	0.0000	171.4626
Total	0.1005	0.9165	1.1822	1.9800e-003		0.0388	0.0388		0.0365	0.0365	0.0000	170.4608	170.4608	0.0401	0.0000	171.4626

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0297	1.1084	0.2668	3.9400e-003	0.1049	1.5000e-003	0.1064	0.0303	1.4300e-003	0.0317	0.0000	379.8155	379.8155	0.0170	0.0000	380.2400
Worker	0.1343	0.0704	0.9139	3.5800e-003	0.5107	2.5000e-003	0.5132	0.1358	2.3000e-003	0.1381	0.0000	323.6931	323.6931	5.0300e-003	0.0000	323.8189
Total	0.1640	1.1788	1.1807	7.5200e-003	0.6156	4.0000e-003	0.6196	0.1661	3.7300e-003	0.1698	0.0000	703.5086	703.5086	0.0220	0.0000	704.0589

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3.4 Building Construction - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1005	0.9165	1.1822	1.9800e-003		0.0388	0.0388		0.0365	0.0365	0.0000	170.4606	170.4606	0.0401	0.0000	171.4624
Total	0.1005	0.9165	1.1822	1.9800e-003		0.0388	0.0388		0.0365	0.0365	0.0000	170.4606	170.4606	0.0401	0.0000	171.4624

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0297	1.1084	0.2668	3.9400e-003	0.1049	1.5000e-003	0.1064	0.0303	1.4300e-003	0.0317	0.0000	379.8155	379.8155	0.0170	0.0000	380.2400
Worker	0.1343	0.0704	0.9139	3.5800e-003	0.5107	2.5000e-003	0.5132	0.1358	2.3000e-003	0.1381	0.0000	323.6931	323.6931	5.0300e-003	0.0000	323.8189
Total	0.1640	1.1788	1.1807	7.5200e-003	0.6156	4.0000e-003	0.6196	0.1661	3.7300e-003	0.1698	0.0000	703.5086	703.5086	0.0220	0.0000	704.0589

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3.4 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0514	1.9393	0.4617	6.9600e-003	0.1862	2.5400e-003	0.1888	0.0538	2.4300e-003	0.0562	0.0000	672.0569	672.0569	0.0298	0.0000	672.8023
Worker	0.2217	0.1147	1.5226	6.1800e-003	0.9068	4.1200e-003	0.9109	0.2411	3.7900e-003	0.2449	0.0000	559.5734	559.5734	8.1700e-003	0.0000	559.7778
Total	0.2731	2.0541	1.9843	0.0131	1.0930	6.6600e-003	1.0997	0.2949	6.2200e-003	0.3011	0.0000	1,231.6303	1,231.6303	0.0380	0.0000	1,232.5801

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3.4 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0514	1.9393	0.4617	6.9600e-003	0.1862	2.5400e-003	0.1888	0.0538	2.4300e-003	0.0562	0.0000	672.0569	672.0569	0.0298	0.0000	672.8023
Worker	0.2217	0.1147	1.5226	6.1800e-003	0.9068	4.1200e-003	0.9109	0.2411	3.7900e-003	0.2449	0.0000	559.5734	559.5734	8.1700e-003	0.0000	559.7778
Total	0.2731	2.0541	1.9843	0.0131	1.0930	6.6600e-003	1.0997	0.2949	6.2200e-003	0.3011	0.0000	1,231.6303	1,231.6303	0.0380	0.0000	1,232.5801

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3.4 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0502	1.9134	0.4520	6.9400e-003	0.1862	2.4200e-003	0.1887	0.0538	2.3200e-003	0.0561	0.0000	670.0797	670.0797	0.0295	0.0000	670.8180
Worker	0.2040	0.1051	1.4271	6.0300e-003	0.9068	3.8300e-003	0.9106	0.2411	3.5300e-003	0.2446	0.0000	546.2892	546.2892	7.4700e-003	0.0000	546.4758
Total	0.2542	2.0185	1.8791	0.0130	1.0930	6.2500e-003	1.0993	0.2949	5.8500e-003	0.3008	0.0000	1,216.3689	1,216.3689	0.0370	0.0000	1,217.2938

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3.4 Building Construction - 2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0502	1.9134	0.4520	6.9400e-003	0.1862	2.4200e-003	0.1887	0.0538	2.3200e-003	0.0561	0.0000	670.0797	670.0797	0.0295	0.0000	670.8180
Worker	0.2040	0.1051	1.4271	6.0300e-003	0.9068	3.8300e-003	0.9106	0.2411	3.5300e-003	0.2446	0.0000	546.2892	546.2892	7.4700e-003	0.0000	546.4758
Total	0.2542	2.0185	1.8791	0.0130	1.0930	6.2500e-003	1.0993	0.2949	5.8500e-003	0.3008	0.0000	1,216.3689	1,216.3689	0.0370	0.0000	1,217.2938

Phase 4 Construction - Sacramento County, Annual

3.4 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0962	0.5832	1.1875	2.2800e-003		0.0109	0.0109		0.0109	0.0109	0.0000	193.2029	193.2029	7.7500e-003	0.0000	193.3966
Total	0.0962	0.5832	1.1875	2.2800e-003		0.0109	0.0109		0.0109	0.0109	0.0000	193.2029	193.2029	7.7500e-003	0.0000	193.3966

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0277	1.0642	0.2502	3.9000e-003	0.1049	1.3100e-003	0.1062	0.0303	1.2600e-003	0.0316	0.0000	376.4850	376.4850	0.0165	0.0000	376.8972
Worker	0.1060	0.0545	0.7565	3.3300e-003	0.5107	2.0100e-003	0.5127	0.1358	1.8500e-003	0.1377	0.0000	301.1672	301.1672	3.8600e-003	0.0000	301.2637
Total	0.1337	1.1187	1.0067	7.2300e-003	0.6156	3.3200e-003	0.6189	0.1661	3.1100e-003	0.1692	0.0000	677.6522	677.6522	0.0204	0.0000	678.1609

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3.4 Building Construction - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0962	0.5832	1.1875	2.2800e-003		0.0109	0.0109		0.0109	0.0109	0.0000	193.2026	193.2026	7.7500e-003	0.0000	193.3964
Total	0.0962	0.5832	1.1875	2.2800e-003		0.0109	0.0109		0.0109	0.0109	0.0000	193.2026	193.2026	7.7500e-003	0.0000	193.3964

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0277	1.0642	0.2502	3.9000e-003	0.1049	1.3100e-003	0.1062	0.0303	1.2600e-003	0.0316	0.0000	376.4850	376.4850	0.0165	0.0000	376.8972
Worker	0.1060	0.0545	0.7565	3.3300e-003	0.5107	2.0100e-003	0.5127	0.1358	1.8500e-003	0.1377	0.0000	301.1672	301.1672	3.8600e-003	0.0000	301.2637
Total	0.1337	1.1187	1.0067	7.2300e-003	0.6156	3.3200e-003	0.6189	0.1661	3.1100e-003	0.1692	0.0000	677.6522	677.6522	0.0204	0.0000	678.1609

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3.5 Paving - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0402	0.2065	0.4596	8.1000e-004		9.5900e-003	9.5900e-003		9.5900e-003	9.5900e-003	0.0000	69.8886	69.8886	3.2800e-003	0.0000	69.9705
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0402	0.2065	0.4596	8.1000e-004		9.5900e-003	9.5900e-003		9.5900e-003	9.5900e-003	0.0000	69.8886	69.8886	3.2800e-003	0.0000	69.9705

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9000e-004	5.1000e-004	7.1000e-003	3.0000e-005	4.7900e-003	2.0000e-005	4.8100e-003	1.2700e-003	2.0000e-005	1.2900e-003	0.0000	2.8248	2.8248	4.0000e-005	0.0000	2.8257
Total	9.9000e-004	5.1000e-004	7.1000e-003	3.0000e-005	4.7900e-003	2.0000e-005	4.8100e-003	1.2700e-003	2.0000e-005	1.2900e-003	0.0000	2.8248	2.8248	4.0000e-005	0.0000	2.8257

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3.5 Paving - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0402	0.2065	0.4596	8.1000e-004		9.5900e-003	9.5900e-003		9.5900e-003	9.5900e-003	0.0000	69.8885	69.8885	3.2800e-003	0.0000	69.9704
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0402	0.2065	0.4596	8.1000e-004		9.5900e-003	9.5900e-003		9.5900e-003	9.5900e-003	0.0000	69.8885	69.8885	3.2800e-003	0.0000	69.9704

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9000e-004	5.1000e-004	7.1000e-003	3.0000e-005	4.7900e-003	2.0000e-005	4.8100e-003	1.2700e-003	2.0000e-005	1.2900e-003	0.0000	2.8248	2.8248	4.0000e-005	0.0000	2.8257
Total	9.9000e-004	5.1000e-004	7.1000e-003	3.0000e-005	4.7900e-003	2.0000e-005	4.8100e-003	1.2700e-003	2.0000e-005	1.2900e-003	0.0000	2.8248	2.8248	4.0000e-005	0.0000	2.8257

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3.6 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.9361					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7900e-003	0.0248	0.0521	9.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	7.4044	7.4044	3.0000e-004	0.0000	7.4119
Total	9.9399	0.0248	0.0521	9.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	7.4044	7.4044	3.0000e-004	0.0000	7.4119

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.3500e-003	4.2900e-003	0.0596	2.6000e-004	0.0402	1.6000e-004	0.0404	0.0107	1.5000e-004	0.0108	0.0000	23.7279	23.7279	3.0000e-004	0.0000	23.7355
Total	8.3500e-003	4.2900e-003	0.0596	2.6000e-004	0.0402	1.6000e-004	0.0404	0.0107	1.5000e-004	0.0108	0.0000	23.7279	23.7279	3.0000e-004	0.0000	23.7355

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3.6 Architectural Coating - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.9361					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7900e-003	0.0248	0.0521	9.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	7.4044	7.4044	3.0000e-004	0.0000	7.4119
Total	9.9399	0.0248	0.0521	9.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	7.4044	7.4044	3.0000e-004	0.0000	7.4119

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.3500e-003	4.2900e-003	0.0596	2.6000e-004	0.0402	1.6000e-004	0.0404	0.0107	1.5000e-004	0.0108	0.0000	23.7279	23.7279	3.0000e-004	0.0000	23.7355
Total	8.3500e-003	4.2900e-003	0.0596	2.6000e-004	0.0402	1.6000e-004	0.0404	0.0107	1.5000e-004	0.0108	0.0000	23.7279	23.7279	3.0000e-004	0.0000	23.7355

4.0 Operational Detail - Mobile

Phase 4 Construction - Sacramento County, Annual

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	2.0724	10.1014	26.6637	0.1206	13.8945	0.0709	13.9654	3.7206	0.0659	3.7866	0.0000	11,149.1851	11,149.1851	0.4045	0.0000	11,159.2985
Unmitigated	2.0724	10.1014	26.6637	0.1206	13.8945	0.0709	13.9654	3.7206	0.0659	3.7866	0.0000	11,149.1851	11,149.1851	0.4045	0.0000	11,159.2985

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	454.71	494.04	418.83	1,676,537	1,676,537
Apartments Mid Rise	1,556.10	1,495.26	1371.24	5,601,926	5,601,926
City Park	9.49	114.21	84.03	94,875	94,875
General Light Industry	250.92	47.52	24.48	775,667	775,667
General Office Building	2,757.50	615.00	262.50	6,340,004	6,340,004
Regional Shopping Center	1,152.90	1,349.19	681.48	2,271,410	2,271,410
Research & Development	316.29	74.10	43.29	770,277	770,277
Single Family Housing	5,416.88	5,638.79	4904.78	19,797,980	19,797,980
Total	11,914.79	9,828.11	7,790.63	37,328,676	37,328,676

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
City Park	15.00	7.50	8.50	33.00	48.00	19.00	66	28	6
General Light Industry	15.00	7.50	8.50	59.00	28.00	13.00	92	5	3
General Office Building	15.00	7.50	8.50	33.00	48.00	19.00	77	19	4
Regional Shopping Center	15.00	7.50	8.50	16.30	64.70	19.00	54	35	11
Research & Development	15.00	7.50	8.50	33.00	48.00	19.00	82	15	3
Single Family Housing	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Apartments Mid Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
City Park	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Light Industry	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Office Building	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Regional Shopping Center	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Research & Development	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Single Family Housing	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	2,991.2861	2,991.2861	0.1470	0.0304	3,004.0203
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	2,991.2861	2,991.2861	0.1470	0.0304	3,004.0203
NaturalGas Mitigated	0.1290	1.1203	0.6008	7.0400e-003			0.0891	0.0891		0.0891	0.0000	1,276.6168	1,276.6168	0.0245	0.0234	1,284.2031
NaturalGas Unmitigated	0.1290	1.1203	0.6008	7.0400e-003			0.0891	0.0891		0.0891	0.0000	1,276.6168	1,276.6168	0.0245	0.0234	1,284.2031

Phase 4 Construction - Sacramento County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	834812	4.5000e-003	0.0385	0.0164	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003	0.0000	44.5487	44.5487	8.5000e-004	8.2000e-004	44.8135
Apartments Mid Rise	2.28106e+006	0.0123	0.1051	0.0447	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	121.7258	121.7258	2.3300e-003	2.2300e-003	122.4492
City Park	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 Light Industry	1.28916e+006	6.9500e-003	0.0632	0.0531	3.8000e-004		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003	0.0000	68.7945	68.7945	1.3200e-003	1.2600e-003	69.2033
General Office Building	3.275e+006	0.0177	0.1605	0.1349	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.7665	174.7665	3.3500e-003	3.2000e-003	175.8050
Regional Shopping Center	146340	7.9000e-004	7.1700e-003	6.0300e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	7.8093	7.8093	1.5000e-004	1.4000e-004	7.8557
Research & Development	1.39659e+006	7.5300e-003	0.0685	0.0575	4.1000e-004		5.2000e-003	5.2000e-003		5.2000e-003	5.2000e-003	0.0000	74.5274	74.5274	1.4300e-003	1.3700e-003	74.9702
Single Family Housing	1.46999e+007	0.0793	0.6774	0.2882	4.3200e-003		0.0548	0.0548		0.0548	0.0548	0.0000	784.4447	784.4447	0.0150	0.0144	789.1063
Total		0.1290	1.1203	0.6008	7.0300e-003		0.0891	0.0891		0.0891	0.0891	0.0000	1,276.6168	1,276.6168	0.0245	0.0234	1,284.2031

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	834812	4.5000e-003	0.0385	0.0164	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003	0.0000	44.5487	44.5487	8.5000e-004	8.2000e-004	44.8135
Apartments Mid Rise	2.28106e+006	0.0123	0.1051	0.0447	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	121.7258	121.7258	2.3300e-003	2.2300e-003	122.4492
City Park	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 Light Industry	1.28916e+006	6.9500e-003	0.0632	0.0531	3.8000e-004		4.8000e-003	4.8000e-003		4.8000e-003	4.8000e-003	0.0000	68.7945	68.7945	1.3200e-003	1.2600e-003	69.2033
General Office Building	3.275e+006	0.0177	0.1605	0.1349	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.7665	174.7665	3.3500e-003	3.2000e-003	175.8050
Regional Shopping Center	146340	7.9000e-004	7.1700e-003	6.0300e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	7.8093	7.8093	1.5000e-004	1.4000e-004	7.8557
Research & Development	1.39659e+006	7.5300e-003	0.0685	0.0575	4.1000e-004		5.2000e-003	5.2000e-003		5.2000e-003	5.2000e-003	0.0000	74.5274	74.5274	1.4300e-003	1.3700e-003	74.9702
Single Family Housing	1.46999e+007	0.0793	0.6774	0.2882	4.3200e-003		0.0548	0.0548		0.0548	0.0548	0.0000	784.4447	784.4447	0.0150	0.0144	789.1063
Total		0.1290	1.1203	0.6008	7.0300e-003		0.0891	0.0891		0.0891	0.0891	0.0000	1,276.6168	1,276.6168	0.0245	0.0234	1,284.2031

Phase 4 Construction - Sacramento County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	310103	83.0331	4.0800e-003	8.4000e-004	83.3866
Apartments Mid Rise	996012	266.6922	0.0131	2.7100e-003	267.8275
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	546480	146.3256	7.1900e-003	1.4900e-003	146.9485
General Office Building	3.61e+006	966.6140	0.0475	9.8200e-003	970.7290
Regional Shopping Center	312390	83.6456	4.1100e-003	8.5000e-004	84.0017
Research & Development	592020	158.5193	7.7900e-003	1.6100e-003	159.1942
Single Family Housing	4.80451e+006	1,286.4564	0.0632	0.0131	1,291.9329
Total		2,991.2861	0.1470	0.0304	3,004.0203

Phase 4 Construction - Sacramento County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	310103	83.0331	4.0800e-003	8.4000e-004	83.3866
Apartments Mid Rise	996012	266.6922	0.0131	2.7100e-003	267.8275
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	546480	146.3256	7.1900e-003	1.4900e-003	146.9485
General Office Building	3.61e+006	966.6140	0.0475	9.8200e-003	970.7290
Regional Shopping Center	312390	83.6456	4.1100e-003	8.5000e-004	84.0017
Research & Development	592020	158.5193	7.7900e-003	1.6100e-003	159.1942
Single Family Housing	4.80451e+006	1,286.4564	0.0632	0.0131	1,291.9329
Total		2,991.2861	0.1470	0.0304	3,004.0203

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.8225	0.1034	8.9734	4.8000e-004		0.0499	0.0499		0.0499	0.0499	0.0000	14.6982	14.6982	0.0140	0.0000	15.0486
Unmitigated	7.8225	0.1034	8.9734	4.8000e-004		0.0499	0.0499		0.0499	0.0499	0.0000	14.6982	14.6982	0.0140	0.0000	15.0486

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	0.9936					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.5602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2687	0.1034	8.9734	4.8000e-004		0.0499	0.0499		0.0499	0.0499	0.0000	14.6982	14.6982	0.0140	0.0000	15.0486
Total	7.8225	0.1034	8.9734	4.8000e-004		0.0499	0.0499		0.0499	0.0499	0.0000	14.6982	14.6982	0.0140	0.0000	15.0486

Phase 4 Construction - Sacramento County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9936					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.5602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2687	0.1034	8.9734	4.8000e-004		0.0499	0.0499		0.0499	0.0499	0.0000	14.6982	14.6982	0.0140	0.0000	15.0486
Total	7.8225	0.1034	8.9734	4.8000e-004		0.0499	0.0499		0.0499	0.0499	0.0000	14.6982	14.6982	0.0140	0.0000	15.0486

7.0 Water Detail

7.1 Mitigation Measures Water

Phase 4 Construction - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	286.5396	0.1710	0.1030	321.5213
Unmitigated	286.5396	0.1710	0.1030	321.5213

Phase 4 Construction - Sacramento County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	4.49563 / 2.8342	10.2445	5.9000e-003	3.5500e-003	11.4489
Apartments Mid Rise	15.246 / 9.61164	34.7421	0.0200	0.0120	38.8268
City Park	0 / 5.98124	5.6054	2.8000e-004	6.0000e-005	5.6292
General Light Industry	8.325 / 0	14.0521	0.0107	6.5200e-003	16.2616
General Office Building	44.4334 / 27.2334	100.5232	0.0583	0.0351	112.4247
Regional Shopping Center	1.99996 / 1.22578	4.5246	2.6200e-003	1.5800e-003	5.0603
Research & Development	19.1761 / 0	32.3681	0.0246	0.0150	37.4575
Single Family Housing	37.0726 / 23.3719	84.4797	0.0487	0.0293	94.4122
Total		286.5396	0.1710	0.1031	321.5213

Phase 4 Construction - Sacramento County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	4.49563 / 2.8342	10.2445	5.9000e-003	3.5500e-003	11.4489
Apartments Mid Rise	15.246 / 9.61164	34.7421	0.0200	0.0120	38.8268
City Park	0 / 5.98124	5.6054	2.8000e-004	6.0000e-005	5.6292
General Light Industry	8.325 / 0	14.0521	0.0107	6.5200e-003	16.2616
General Office Building	44.4334 / 27.2334	100.5232	0.0583	0.0351	112.4247
Regional Shopping Center	1.99996 / 1.22578	4.5246	2.6200e-003	1.5800e-003	5.0603
Research & Development	19.1761 / 0	32.3681	0.0246	0.0150	37.4575
Single Family Housing	37.0726 / 23.3719	84.4797	0.0487	0.0293	94.4122
Total		286.5396	0.1710	0.1031	321.5213

8.0 Waste Detail

8.1 Mitigation Measures Waste

Phase 4 Construction - Sacramento County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	201.9963	11.9376	0.0000	500.4373
Unmitigated	201.9963	11.9376	0.0000	500.4373

Phase 4 Construction - Sacramento County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	31.74	6.4429	0.3808	0.0000	15.9621
Apartments Mid Rise	107.64	21.8500	1.2913	0.0000	54.1323
City Park	0.43	0.0873	5.1600e-003	0.0000	0.2163
General Light Industry	44.64	9.0615	0.5355	0.0000	22.4495
General Office Building	232.5	47.1954	2.7892	0.0000	116.9246
Regional Shopping Center	28.35	5.7548	0.3401	0.0000	14.2573
Research & Development	2.96	0.6009	0.0355	0.0000	1.4886
Single Family Housing	546.84	111.0036	6.5601	0.0000	275.0067
Total		201.9963	11.9376	0.0000	500.4373

Phase 4 Construction - Sacramento County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	31.74	6.4429	0.3808	0.0000	15.9621
Apartments Mid Rise	107.64	21.8500	1.2913	0.0000	54.1323
City Park	0.43	0.0873	5.1600e-003	0.0000	0.2163
General Light Industry	44.64	9.0615	0.5355	0.0000	22.4495
General Office Building	232.5	47.1954	2.7892	0.0000	116.9246
Regional Shopping Center	28.35	5.7548	0.3401	0.0000	14.2573
Research & Development	2.96	0.6009	0.0355	0.0000	1.4886
Single Family Housing	546.84	111.0036	6.5601	0.0000	275.0067
Total		201.9963	11.9376	0.0000	500.4373

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Phase 4 Construction - Sacramento County, Annual

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

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

Equipment Type	Number
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11.0 Vegetation

Phase 4 Construction - Sacramento County, Summer

**Phase 4 Construction
Sacramento County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	569.00	Dwelling Unit	87.33	1,024,200.00	1519
Apartments Low Rise	69.00	Dwelling Unit	6.87	69,000.00	184
Apartments Mid Rise	234.00	Dwelling Unit	11.71	234,000.00	625
Regional Shopping Center	27.00	1000sqft	3.10	27,000.00	0
General Office Building	250.00	1000sqft	16.44	250,000.00	0
Research & Development	39.00	1000sqft	2.56	39,000.00	0
General Light Industry	36.00	1000sqft	2.35	36,000.00	0
City Park	5.02	Acre	5.02	218,671.20	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2032
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Phase 4 Construction - Sacramento County, Summer

Project Characteristics -

Land Use - See Appendix for construction phasing assumptions

Construction Phase - Construction phasing adjusted proportionally to CalEEMod defaults - see Appendix for details

Vehicle Trips - Construction run only

Phase 4 Construction - Sacramento County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	58.00
tblConstructionPhase	NumDays	3,100.00	816.00
tblConstructionPhase	NumDays	310.00	82.00
tblConstructionPhase	NumDays	220.00	58.00
tblConstructionPhase	NumDays	120.00	32.00
tblConstructionPhase	PhaseEndDate	12/23/2044	12/30/2032
tblConstructionPhase	PhaseEndDate	4/17/2043	7/23/2032
tblConstructionPhase	PhaseEndDate	5/30/2031	6/7/2029
tblConstructionPhase	PhaseEndDate	2/19/2044	10/13/2032
tblConstructionPhase	PhaseEndDate	3/22/2030	2/13/2029
tblConstructionPhase	PhaseStartDate	2/20/2044	10/12/2032
tblConstructionPhase	PhaseStartDate	5/31/2031	6/8/2029
tblConstructionPhase	PhaseStartDate	3/23/2030	2/14/2029
tblConstructionPhase	PhaseStartDate	4/18/2043	7/24/2032
tblConstructionPhase	PhaseStartDate	10/6/2029	1/1/2029
tblGrading	AcresOfGrading	205.00	775.00
tblLandUse	LotAcreage	184.74	87.33
tblLandUse	LotAcreage	4.31	6.87
tblLandUse	LotAcreage	6.16	11.71
tblLandUse	LotAcreage	0.62	3.10
tblLandUse	LotAcreage	5.74	16.44
tblLandUse	LotAcreage	0.90	2.56
tblLandUse	LotAcreage	0.83	2.35
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

2.0 Emissions Summary

Phase 4 Construction - Sacramento County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2029	3.7875	28.1799	34.7032	0.1349	18.2716	1.1320	19.3593	9.9851	1.0414	10.9859	0.0000	13,675.29 10	13,675.29 10	1.9459	0.0000	13,698.64 13
2030	3.5762	23.3615	33.7793	0.1372	8.6658	0.1989	8.8647	2.3311	0.1955	2.5266	0.0000	13,855.45 78	13,855.45 78	0.4394	0.0000	13,866.44 34
2031	3.4167	23.1022	32.8447	0.1358	8.6657	0.1958	8.8616	2.3311	0.1927	2.5237	0.0000	13,714.90 70	13,714.90 70	0.4304	0.0000	13,725.66 64
2032	344.4970	22.8666	32.0281	0.1346	8.6657	0.3570	8.8588	2.3310	0.3566	2.5212	0.0000	13,593.42 07	13,593.42 07	0.4225	0.0000	13,603.98 23
Maximum	344.4970	28.1799	34.7032	0.1372	18.2716	1.1320	19.3593	9.9851	1.0414	10.9859	0.0000	13,855.45 78	13,855.45 78	1.9459	0.0000	13,866.44 34

Phase 4 Construction - Sacramento County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	43.5401	0.8275	71.7873	3.8000e-003		0.3991	0.3991		0.3991	0.3991	0.0000	129.6157	129.6157	0.1236	0.0000	132.7062
Energy	0.7068	6.1386	3.2920	0.0386		0.4884	0.4884		0.4884	0.4884		7,710.8447	7,710.8447	0.1478	0.1414	7,756.6664
Mobile	16.1057	60.4541	188.4727	0.8001	88.4090	0.4362	88.8451	23.6066	0.4055	24.0121		81,429.8271	81,429.8271	2.7972		81,499.7576
Total	60.3525	67.4202	263.5520	0.8424	88.4090	1.3236	89.7326	23.6066	1.2929	24.8995	0.0000	89,270.2875	89,270.2875	3.0686	0.1414	89,389.1302

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	43.5401	0.8275	71.7873	3.8000e-003		0.3991	0.3991		0.3991	0.3991	0.0000	129.6157	129.6157	0.1236	0.0000	132.7062
Energy	0.7068	6.1386	3.2920	0.0386		0.4884	0.4884		0.4884	0.4884		7,710.8447	7,710.8447	0.1478	0.1414	7,756.6664
Mobile	16.1057	60.4541	188.4727	0.8001	88.4090	0.4362	88.8451	23.6066	0.4055	24.0121		81,429.8271	81,429.8271	2.7972		81,499.7576
Total	60.3525	67.4202	263.5520	0.8424	88.4090	1.3236	89.7326	23.6066	1.2929	24.8995	0.0000	89,270.2875	89,270.2875	3.0686	0.1414	89,389.1302

Phase 4 Construction - Sacramento County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2029	2/13/2029	5	32	
2	Grading	Grading	2/14/2029	6/7/2029	5	82	
3	Building Construction	Building Construction	6/8/2029	7/23/2032	5	816	
4	Paving	Paving	7/24/2032	10/13/2032	5	58	
5	Architectural Coating	Architectural Coating	10/12/2032	12/30/2032	5	58	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 2,687,580; Residential Outdoor: 895,860; Non-Residential Indoor: 528,000; Non-Residential Outdoor: 176,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase 4 Construction - Sacramento County, Summer

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	126.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	631.00	187.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	15.00	8.50	20.00	LD_Mix	HDT_Mix	HHDT

Phase 4 Construction - Sacramento County, Summer

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0577	0.0248	0.4328	1.5400e-003	0.2053	9.7000e-004	0.2063	0.0545	8.9000e-004	0.0553		153.2945	153.2945	2.4500e-003		153.3557
Total	0.0577	0.0248	0.4328	1.5400e-003	0.2053	9.7000e-004	0.2063	0.0545	8.9000e-004	0.0553		153.2945	153.2945	2.4500e-003		153.3557

Phase 4 Construction - Sacramento County, Summer

3.2 Site Preparation - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0577	0.0248	0.4328	1.5400e-003	0.2053	9.7000e-004	0.2063	0.0545	8.9000e-004	0.0553		153.2945	153.2945	2.4500e-003		153.3557
Total	0.0577	0.0248	0.4328	1.5400e-003	0.2053	9.7000e-004	0.2063	0.0545	8.9000e-004	0.0553		153.2945	153.2945	2.4500e-003		153.3557

Phase 4 Construction - Sacramento County, Summer

3.3 Grading - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					16.0451	0.0000	16.0451	4.3925	0.0000	4.3925			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	16.0451	1.1309	17.1760	4.3925	1.0404	5.4329		6,008.2814	6,008.2814	1.9432		6,056.8614

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0641	0.0276	0.4808	1.7100e-003	0.2281	1.0800e-003	0.2292	0.0605	9.9000e-004	0.0615		170.3273	170.3273	2.7200e-003		170.3952
Total	0.0641	0.0276	0.4808	1.7100e-003	0.2281	1.0800e-003	0.2292	0.0605	9.9000e-004	0.0615		170.3273	170.3273	2.7200e-003		170.3952

Phase 4 Construction - Sacramento County, Summer

3.3 Grading - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					16.0451	0.0000	16.0451	4.3925	0.0000	4.3925			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	16.0451	1.1309	17.1760	4.3925	1.0404	5.4329	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0641	0.0276	0.4808	1.7100e-003	0.2281	1.0800e-003	0.2292	0.0605	9.9000e-004	0.0615		170.3273	170.3273	2.7200e-003		170.3952
Total	0.0641	0.0276	0.4808	1.7100e-003	0.2281	1.0800e-003	0.2292	0.0605	9.9000e-004	0.0615		170.3273	170.3273	2.7200e-003		170.3952

Phase 4 Construction - Sacramento County, Summer

3.4 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3976	14.8405	3.4479	0.0540	1.4690	0.0200	1.4890	0.4225	0.0192	0.4416		5,744.992 0	5,744.992 0	0.2473		5,751.174 4
Worker	2.0225	0.8698	15.1706	0.0539	7.1969	0.0340	7.2309	1.9086	0.0312	1.9399		5,373.824 7	5,373.824 7	0.0858		5,375.968 8
Total	2.4201	15.7102	18.6185	0.1079	8.6659	0.0540	8.7199	2.3311	0.0504	2.3815		11,118.81 67	11,118.81 67	0.3331		11,127.14 32

Phase 4 Construction - Sacramento County, Summer

3.4 Building Construction - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3976	14.8405	3.4479	0.0540	1.4690	0.0200	1.4890	0.4225	0.0192	0.4416		5,744.992 0	5,744.992 0	0.2473		5,751.174 4
Worker	2.0225	0.8698	15.1706	0.0539	7.1969	0.0340	7.2309	1.9086	0.0312	1.9399		5,373.824 7	5,373.824 7	0.0858		5,375.968 8
Total	2.4201	15.7102	18.6185	0.1079	8.6659	0.0540	8.7199	2.3311	0.0504	2.3815		11,118.81 67	11,118.81 67	0.3331		11,127.14 32

Phase 4 Construction - Sacramento County, Summer

3.4 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3874	14.6278	3.3629	0.0538	1.4689	0.0191	1.4880	0.4224	0.0183	0.4407		5,725.1450	5,725.1450	0.2446		5,731.2600
Worker	1.8797	0.7991	14.2595	0.0525	7.1969	0.0316	7.2285	1.9086	0.0291	1.9377		5,232.7661	5,232.7661	0.0786		5,234.7305
Total	2.2671	15.4269	17.6224	0.1063	8.6658	0.0507	8.7165	2.3311	0.0474	2.3784		10,957.9111	10,957.9111	0.3232		10,965.9906

Phase 4 Construction - Sacramento County, Summer

3.4 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3874	14.6278	3.3629	0.0538	1.4689	0.0191	1.4880	0.4224	0.0183	0.4407		5,725.1450	5,725.1450	0.2446		5,731.2600
Worker	1.8797	0.7991	14.2595	0.0525	7.1969	0.0316	7.2285	1.9086	0.0291	1.9377		5,232.7661	5,232.7661	0.0786		5,234.7305
Total	2.2671	15.4269	17.6224	0.1063	8.6658	0.0507	8.7165	2.3311	0.0474	2.3784		10,957.9111	10,957.9111	0.3232		10,965.9906

Phase 4 Construction - Sacramento County, Summer

3.4 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3787	14.4351	3.2935	0.0537	1.4688	0.0183	1.4871	0.4224	0.0175	0.4399		5,708.1777	5,708.1777	0.2423		5,714.2344
Worker	1.7288	0.7325	13.3942	0.0512	7.1969	0.0294	7.2263	1.9086	0.0270	1.9357		5,109.1826	5,109.1826	0.0719		5,110.9791
Total	2.1076	15.1676	16.6877	0.1049	8.6657	0.0477	8.7134	2.3311	0.0445	2.3756		10,817.3603	10,817.3603	0.3141		10,825.2135

Phase 4 Construction - Sacramento County, Summer

3.4 Building Construction - 2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3787	14.4351	3.2935	0.0537	1.4688	0.0183	1.4871	0.4224	0.0175	0.4399		5,708.1777	5,708.1777	0.2423		5,714.2344
Worker	1.7288	0.7325	13.3942	0.0512	7.1969	0.0294	7.2263	1.9086	0.0270	1.9357		5,109.1826	5,109.1826	0.0719		5,110.9791
Total	2.1076	15.1676	16.6877	0.1049	8.6657	0.0477	8.7134	2.3311	0.0445	2.3756		10,817.3603	10,817.3603	0.3141		10,825.2135

Phase 4 Construction - Sacramento County, Summer

3.4 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3714	14.2569	3.2388	0.0535	1.4688	0.0176	1.4864	0.4224	0.0169	0.4393		5,694.2383	5,694.2383	0.2402		5,700.2433
Worker	1.5937	0.6751	12.6324	0.0501	7.1969	0.0273	7.2242	1.9086	0.0251	1.9338		5,001.6357	5,001.6357	0.0660		5,003.2862
Total	1.9651	14.9320	15.8712	0.1036	8.6657	0.0450	8.7106	2.3310	0.0420	2.3730		10,695.8739	10,695.8739	0.3062		10,703.5294

Phase 4 Construction - Sacramento County, Summer

3.4 Building Construction - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3714	14.2569	3.2388	0.0535	1.4688	0.0176	1.4864	0.4224	0.0169	0.4393		5,694.2383	5,694.2383	0.2402		5,700.2433
Worker	1.5937	0.6751	12.6324	0.0501	7.1969	0.0273	7.2242	1.9086	0.0251	1.9338		5,001.6357	5,001.6357	0.0660		5,003.2862
Total	1.9651	14.9320	15.8712	0.1036	8.6657	0.0450	8.7106	2.3310	0.0420	2.3730		10,695.8739	10,695.8739	0.3062		10,703.5294

Phase 4 Construction - Sacramento County, Summer

3.5 Paving - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0379	0.0161	0.3003	1.1900e-003	0.1711	6.5000e-004	0.1717	0.0454	6.0000e-004	0.0460		118.8978	118.8978	1.5700e-003		118.9371
Total	0.0379	0.0161	0.3003	1.1900e-003	0.1711	6.5000e-004	0.1717	0.0454	6.0000e-004	0.0460		118.8978	118.8978	1.5700e-003		118.9371

Phase 4 Construction - Sacramento County, Summer

3.5 Paving - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0379	0.0161	0.3003	1.1900e-003	0.1711	6.5000e-004	0.1717	0.0454	6.0000e-004	0.0460		118.8978	118.8978	1.5700e-003		118.9371
Total	0.0379	0.0161	0.3003	1.1900e-003	0.1711	6.5000e-004	0.1717	0.0454	6.0000e-004	0.0460		118.8978	118.8978	1.5700e-003		118.9371

Phase 4 Construction - Sacramento County, Summer

3.6 Architectural Coating - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	342.6256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	342.7563	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3182	0.1348	2.5225	0.0100	1.4371	5.4500e-003	1.4426	0.3811	5.0200e-003	0.3861		998.7418	998.7418	0.0132		999.0714
Total	0.3182	0.1348	2.5225	0.0100	1.4371	5.4500e-003	1.4426	0.3811	5.0200e-003	0.3861		998.7418	998.7418	0.0132		999.0714

Phase 4 Construction - Sacramento County, Summer

3.6 Architectural Coating - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	342.6256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
Total	342.7563	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.3182	0.1348	2.5225	0.0100	1.4371	5.4500e-003	1.4426	0.3811	5.0200e-003	0.3861		998.7418	998.7418	0.0132		999.0714
Total	0.3182	0.1348	2.5225	0.0100	1.4371	5.4500e-003	1.4426	0.3811	5.0200e-003	0.3861		998.7418	998.7418	0.0132		999.0714

4.0 Operational Detail - Mobile

Phase 4 Construction - Sacramento County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.1057	60.4541	188.4727	0.8001	88.4090	0.4362	88.8451	23.6066	0.4055	24.0121		81,429.8271	81,429.8271	2.7972		81,499.7576
Unmitigated	16.1057	60.4541	188.4727	0.8001	88.4090	0.4362	88.8451	23.6066	0.4055	24.0121		81,429.8271	81,429.8271	2.7972		81,499.7576

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	454.71	494.04	418.83	1,676,537	1,676,537
Apartments Mid Rise	1,556.10	1,495.26	1371.24	5,601,926	5,601,926
City Park	9.49	114.21	84.03	94,875	94,875
General Light Industry	250.92	47.52	24.48	775,667	775,667
General Office Building	2,757.50	615.00	262.50	6,340,004	6,340,004
Regional Shopping Center	1,152.90	1,349.19	681.48	2,271,410	2,271,410
Research & Development	316.29	74.10	43.29	770,277	770,277
Single Family Housing	5,416.88	5,638.79	4904.78	19,797,980	19,797,980
Total	11,914.79	9,828.11	7,790.63	37,328,676	37,328,676

4.3 Trip Type Information

Phase 4 Construction - Sacramento County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
City Park	15.00	7.50	8.50	33.00	48.00	19.00	66	28	6
General Light Industry	15.00	7.50	8.50	59.00	28.00	13.00	92	5	3
General Office Building	15.00	7.50	8.50	33.00	48.00	19.00	77	19	4
Regional Shopping Center	15.00	7.50	8.50	16.30	64.70	19.00	54	35	11
Research & Development	15.00	7.50	8.50	33.00	48.00	19.00	82	15	3
Single Family Housing	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Apartments Mid Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
City Park	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Light Industry	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Office Building	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Regional Shopping Center	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Research & Development	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Single Family Housing	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Phase 4 Construction - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.7068	6.1386	3.2920	0.0386		0.4884	0.4884		0.4884	0.4884		7,710.8447	7,710.8447	0.1478	0.1414	7,756.6664
NaturalGas Unmitigated	0.7068	6.1386	3.2920	0.0386		0.4884	0.4884		0.4884	0.4884		7,710.8447	7,710.8447	0.1478	0.1414	7,756.6664

Phase 4 Construction - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	2287.16	0.0247	0.2108	0.0897	1.3500e-003		0.0170	0.0170		0.0170	0.0170		269.0771	269.0771	5.1600e-003	4.9300e-003	270.6761
Apartments Mid Rise	6249.47	0.0674	0.5759	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.2314	735.2314	0.0141	0.0135	739.6005
City Park	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 Light Industry	3531.95	0.0381	0.3463	0.2909	2.0800e-003		0.0263	0.0263		0.0263	0.0263		415.5230	415.5230	7.9600e-003	7.6200e-003	417.9922
General Office Building	8972.6	0.0968	0.8797	0.7389	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,055.6003	1,055.6003	0.0202	0.0194	1,061.8732
Regional Shopping Center	400.932	4.3200e-003	0.0393	0.0330	2.4000e-004		2.9900e-003	2.9900e-003		2.9900e-003	2.9900e-003		47.1684	47.1684	9.0000e-004	8.6000e-004	47.4487
Research & Development	3826.27	0.0413	0.3751	0.3151	2.2500e-003		0.0285	0.0285		0.0285	0.0285		450.1499	450.1499	8.6300e-003	8.2500e-003	452.8249
Single Family Housing	40273.8	0.4343	3.7115	1.5794	0.0237		0.3001	0.3001		0.3001	0.3001		4,738.0946	4,738.0946	0.0908	0.0869	4,766.2508
Total		0.7068	6.1386	3.2920	0.0386		0.4884	0.4884		0.4884	0.4884		7,710.8447	7,710.8447	0.1478	0.1414	7,756.6664

Phase 4 Construction - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	2.28716	0.0247	0.2108	0.0897	1.3500e-003		0.0170	0.0170		0.0170	0.0170		269.0771	269.0771	5.1600e-003	4.9300e-003	270.6761
Apartments Mid Rise	6.24947	0.0674	0.5759	0.2451	3.6800e-003		0.0466	0.0466		0.0466	0.0466		735.2314	735.2314	0.0141	0.0135	739.6005
City Park	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 Light Industry	3.53195	0.0381	0.3463	0.2909	2.0800e-003		0.0263	0.0263		0.0263	0.0263		415.5230	415.5230	7.9600e-003	7.6200e-003	417.9922
General Office Building	8.9726	0.0968	0.8797	0.7389	5.2800e-003		0.0669	0.0669		0.0669	0.0669		1,055.6003	1,055.6003	0.0202	0.0194	1,061.8732
Regional Shopping Center	0.400932	4.3200e-003	0.0393	0.0330	2.4000e-004		2.9900e-003	2.9900e-003		2.9900e-003	2.9900e-003		47.1684	47.1684	9.0000e-004	8.6000e-004	47.4487
Research & Development	3.82627	0.0413	0.3751	0.3151	2.2500e-003		0.0285	0.0285		0.0285	0.0285		450.1499	450.1499	8.6300e-003	8.2500e-003	452.8249
Single Family Housing	40.2738	0.4343	3.7115	1.5794	0.0237		0.3001	0.3001		0.3001	0.3001		4,738.0946	4,738.0946	0.0908	0.0869	4,766.2508
Total		0.7068	6.1386	3.2920	0.0386		0.4884	0.4884		0.4884	0.4884		7,710.8447	7,710.8447	0.1478	0.1414	7,756.6664

6.0 Area Detail

6.1 Mitigation Measures Area

Phase 4 Construction - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	43.5401	0.8275	71.7873	3.8000e-003		0.3991	0.3991		0.3991	0.3991	0.0000	129.6157	129.6157	0.1236	0.0000	132.7062
Unmitigated	43.5401	0.8275	71.7873	3.8000e-003		0.3991	0.3991		0.3991	0.3991	0.0000	129.6157	129.6157	0.1236	0.0000	132.7062

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	5.4445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	35.9462					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1494	0.8275	71.7873	3.8000e-003		0.3991	0.3991		0.3991	0.3991		129.6157	129.6157	0.1236		132.7062
Total	43.5401	0.8275	71.7873	3.8000e-003		0.3991	0.3991		0.3991	0.3991	0.0000	129.6157	129.6157	0.1236	0.0000	132.7062

Phase 4 Construction - Sacramento County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	35.9462					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1494	0.8275	71.7873	3.8000e-003		0.3991	0.3991		0.3991	0.3991		129.6157	129.6157	0.1236		132.7062
Total	43.5401	0.8275	71.7873	3.8000e-003		0.3991	0.3991		0.3991	0.3991	0.0000	129.6157	129.6157	0.1236	0.0000	132.7062

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Phase 4 Construction - Sacramento County, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Unmitigated Project Emissions												
Run	Season	Source	ROG (tons/year)	NOX (tons/year)	CO (tons/year)	SO2 (tons/year)	Fugitive PM10 (tons/year)	Exhaust PM10 (tons/year)	Fugitive PM2.5 (tons/year)	Exhaust PM2.5 (tons/year)	MTCO2e	
Baseline (includes 2019 Title 24)	Annual	Area	29.427	0.4178		36.2447	0.0019		0.2015		61	
		Energy	0.2803	2.4303		1.2731	0.0153		0.1937		14,599	
		Mobile	8.1809	39.8486		104.1791	0.4697	54.051	0.2767	14.4736	0.2573	43,474
		Waste										1,894
		Water										1,032
		Total		37.8882	42.6967		141.6969	0.48692	54.051	0.6719	14.4736	0.6525	61,060
Reduction Targets			1.2	6.0								
Reduction targets based on 15% reduction from both ROG and NOx separately												

Mitigated Project Emissions												
Run	Season	Source	ROG (tons/year)	NOX (tons/year)	CO (tons/year)	SO2 (tons/year)	Fugitive PM10 (tons/year)	Exhaust PM10 (tons/year)	Fugitive PM2.5 (tons/year)	Exhaust PM2.5 (tons/year)	MTCO2e	
TS, Water, RPS Adjusted	Annual	Area	29.427	0.4178		36.2	0.0019		0.2015		61	
		Energy	0.2803	2.4303		1.2731	0.0153		0.1937		6,553	
		Mobile	4.7664	23.0349		53.5168	0.2319	26.1704	0.1399	7.0078	0.13	22,766
		Waste										1,894
		Water										341
		Total		34.4737	25.883		91.0346	0.24912	26.1704	0.5351	7.0078	0.5252	31,614
Reduction Achieved			3.4145	16.8137								
Plus NEV, Intersection, Water and Waste Mitigation	Annual	Area	29.427	0.4178		36.2447	0.0019		0.2015		61	
		Energy	0.2803	2.4303		1.2731	0.0153		0.1937		6,553	
		Mobile	4.5024	21.6742		47.2112	0.1997	22.2448	0.1222	5.9566	0.1135	22,766
		Waste										1,061
		Water										341
		Total		34.2097	24.5223		84.729	0.21692	22.2448	0.5174	5.9566	0.5087	30,781
Reduction Achieved			3.6785	18.1744				31.9607		8.6608		
			-0.097088276	-0.425662873								

GHG Mitigation	Residential MTCO2e	Commercial/Industrial MTCO2e	Mobile MTCO2e
TS, Water, RPS, 2019 Title 24 Adjusted (NEV, intersection improvement Mitigated)			
	4,726.13	1,826.50	22,766
Reduction Target	6,659	3,961	13,410
Reduction Needed	NA	NA	9,356
Reduction Surplus	(1,933.09)	(2,134.21)	
Credits from Residential/Commercial			4,067
EV Charging Reduction			2,404
100 Percent Solar on Multifamily			555
100 Percent Solar on Nonresidential			1,195
Water Efficiency Measures			-
Waste Reduction			834
Reduction Needed			301
	2020	2032	
Population	2,651	9,122	
Residential GHG Threshold	1.33	0.73 MTCO2e/capita	
Commercial/Industrial GHG Threshold	7.87	4.28 MTCO2e/1000 sq ft	
Mobile GHG Threshold	2.67	1.47 MTCO2e/capita	
	2020	2032	
GHG Targets			
Residential	3,525	6,659 MTCO2e	
Commercial/Industrial	2,112	3,961 MTCO2e	
Mobile	7,077	13,410 MTCO2e	
	2020	2030	
SMUD EF	374.1	236.9 lb CO2/MWh	
	0.029	0.029 lb CH4/MWh	
	0.006	0.006 lb N2O/MWh	

EV Chargers Needed Calculations

Land Use Type	Number	Unit	Sac County Code	Land Use Equivalent	Minimum parking spaces	Unit	Total Parking Required	Number of EV Charging Spaces	Total number of charging spaces	Notes
Single Family Housing	2291	DU								
Apartments Low Rise	449	DU		Apartments		2 per DU	898	0.10	89.8	
Apartments Mid Rise	781	DU		Apartments		2 per DU	1,562	0.10	156	
General Office Building	415.25	1000 sq ft		Offices		4.5 per 1000 sq ft	1,869	0.10	187	
Research & Development	149	1000 sq ft		Industrial-office Parks		3 per 1000 sq ft	447	0.10	45	
Elementary School	1500	students		Schools		1 per 3 seats in auditorium	500	0.10	50	Assumed one seat per student in auditorium
General Light Industry	35.75	1000 sq ft		Other Uses		3 per 1000 sq ft	107	14	14	
City Park	44.03	acres		Parks						Only off-street parking required
Health Club	15	1000 sq ft		Physical Fitness Centers		5 per 1000 sq ft	75	8	8	
Regional Shopping Center	185	1000 sq ft		Retail Stores and Shopping Centers		4.5 per 1000 sq ft	833	0.10	83	
Total							6,290		633	
									316 Number of chargers	

Source:

<http://www.per.saccounty.net/LandUseRegulationDocuments/Documents/ZoningCodes/330-01-Off-Street-Parking.pdf>

<http://www.ihrsa.org/research-faqs/>

<https://www.documents.dgs.ca.gov/bsc/CALGreen/CALGreen-Guide-2016-FINAL.pdf>

<https://codes.iccsafe.org/public/chapter/content/2504/>

EV Charger Emission Reduction Calculation

Input/Assumptions
Output

Number of Chargers	313	
Number of Connections per Charge	2	
Average Charging hours per Connection per day	3	
Number of hours of charge per year for all chargers (h/year)	639,772	
Average Efficiency of EV LDV (kWh/100-mi) (1)	34	<-for MY2015-2018
Average Efficiency of Gasoline LDV in 2020 (mpg)	29	<-informational purposes only
GHG Emissions per kWh in Sacramento in 2030 (MTCO2e/kWh)	0.00011	
GHG Emissions per mi for average gasoline LDV (gCO2/mi)	291	
Emissions reductions per EV mi (kg CO2/mi)	0.26	

Percent Breakdown of Charger Types	Type of EV Charger	Charger Power (kW or kWh/h) (2)	Charged amount (kWh)	Equivalent VMT (mi)	EV emissions (MT CO2e)	Equivalent Gasoline emissions (MT CO2e)	Emissions reductions (MT CO2e)	Emissions reductions per hour of charge (kg CO2e/h)	ROG Emission Reduction (tons)	NOx Emission Reduction (tons)	PM10 Emission Reduction (tons)
0%	Level 1	1.4	-	-	-	-	-	-			
50%	Level 2 (low)	3.3	1,055,624	3,139,121	113	915	801	1	0.03	0.10	0.16
50%	Level 2 (high)	6.6	2,111,248	6,278,242	227	1,829	1,603	3	0.06	0.20	0.32
0%	DC Fast Charging	45	-	-	-	-	-	-			
0%	Tesla Wall Connector	11.5	-	-	-	-	-	-			
0%	Tesla Supercharger	120	-	-	-	-	-	-			
Total VMT				9,417,363	Total Reductions		2,404		0.09	0.31	0.48

Source:

(1) <https://www.driveclean.ca.gov/pev/Charging.php>

(2) <http://www.fueleconomy.gov/feg/download.shtml>

Population Estimate

	2036 SACOG RTP/SCS	2032 Mather South	2020 SACOG RTP/SCS	2020 Mather South
Population	3,078,772	9,122	2,472,567	2,653
Housing Units	1,188,347	3,521	951,495	1,021
Pop per Unit	2.591		2.60	
Source: SACOG 2016				
Population Distribution	Units	Population		Population
Single Family	2291	5,936		1,725
Low Rise Multifamily	449	1,163		338
Mid Rise Multifamily	781	2,023		587

CalEEMod VMT Calculator (UNMITIGATED SCENARIO)

This calculator was created based on the default trip inputs for the unmitigated CalEEMod run. The calculator calculates the annual VMT from the proposed project using the same methodology from CalEEMod, described in Appendix A, for the UNMITIGATED SCENARIO. This calculator can be used to adjust land use trip rates for the MITIGATED PROJECT scenario which is based on the traffic study conducted for the project

Trip Type

CalEEMod defaults based on land uses inputted

Land Use	Miles			Trip %			Trip Purpose		
	H-w or C-W	H-S or C-C	H-O or C-O	H-w or C-W	H-S or C-C	H-O or C-O	Primary	Diverted	Pass-by
city park	15.00	7.50	8.50	33.0%	48.0%	19.0%	66.0%	28.0%	6.0%
elementary school	15.00	7.50	8.50	65.0%	30.0%	5.0%	63.0%	25.0%	12.0%
general office building	15.00	7.50	8.50	33.0%	48.0%	19.0%	77.0%	19.0%	4.0%
research & development	15.00	7.50	8.50	33.0%	48.0%	19.0%	82.0%	15.0%	3.0%
health club	15.00	7.50	8.50	16.3%	64.1%	19.0%	52.0%	39.0%	9.0%
general light industry	15.00	7.50	8.50	59.0%	28.0%	13.0%	92.0%	5.0%	3.0%
apartments low rise	15.00	7.50	8.50	46.5%	12.5%	41.0%	86.0%	11.0%	3.0%
apartments mid rise	15.00	7.50	8.50	46.5%	12.5%	41.0%	86.0%	11.0%	3.0%
Single Family Home	15.00	7.50	8.50	46.5%	12.5%	41.0%	86.0%	11.0%	3.0%
regional shopping center	15.00	7.50	8.50	16.3%	64.7%	19.0%	54.0%	35.0%	11.0%

Total Trips

Total Trips = (TripRate weekday x 5 + Trip Sat + Trip Sun)

Average Daily Trips Based on CalEEMod Trip Gen Defaults per land use unit. Total trips Calculated

Land Use	Average Daily Trip Rate			Total Trips (weekly)
	weekday	Saturday	Sunday	
city park	83.22	1001.68	737.06	2154.84
elementary school	1935	0	0	9675
general office building	4580.21	1021.52	436.01	24358.58
research & development	1208.39	283.1	165.39	6490.44
health club	493.95	313.05	400.95	3183.75
general light industry	249.18	47.19	24.31	1317.4
apartments low rise	2958.91	3214.84	2725.43	20734.82
apartments mid rise	5193.65	4990.59	4576.66	35535.5
Single Family Home	21810.32	22703.81	19748.42	151503.83
regional shopping center	7899.5	9244.45	4668.4	53411.35
	46412.33	42820.23	33483.63	

Trip Length Calc

AVG Trip Length = Link % primary x trip length primary + link % diverted x 0.25 x length trip primary + link % passby x 0.1

Trip length calculated for each trip type based on trip purpose % and length defaults from CalEEMod

Land Use	link % primary	trip length		Constant (0.25)	primary	link % passby	constant	Trip Length
		primary	link % diverted					
city park								
H-W or C-W	66.0%	15.00	28.0%	0.25	15	6.0%	0.1	11.0
H-S or C-C	66.0%	7.50	28.0%	0.25	7.5	6.0%	0.1	5.5
H-O or C-O	66.0%	8.50	28.0%	0.25	8.5	6.0%	0.1	6.2
elementary school								
H-W or C-W	63.0%	15.00	25.0%	0.25	15.00	12.0%	0.1	10.4
H-S or C-C	63.0%	7.5	25.0%	0.25	7.50	12.0%	0.1	5.2
H-O or C-O	63.0%	8.5	25.0%	0.25	8.50	12.0%	0.1	5.9
general office building								
H-W or C-W	77.0%	15.00	19.0%	0.25	15.00	4.0%	0.1	12.3
H-S or C-C	77.0%	7.50	19.0%	0.25	7.50	4.0%	0.1	6.1
H-O or C-O	77.0%	8.50	19.0%	0.25	8.50	4.0%	0.1	7.0
research & development								
H-W or C-W	82.0%	15.00	15.0%	0.25	15.00	3.0%	0.1	12.9
H-S or C-C	82.0%	7.50	15.0%	0.25	7.50	3.0%	0.1	6.4
H-O or C-O	82.0%	8.50	15.0%	0.25	8.50	3.0%	0.1	7.3
health club								
H-W or C-W	52.0%	15.00	39.0%	0.25	15.00	9.0%	0.1	9.3
H-S or C-C	52.0%	7.50	39.0%	0.25	7.50	9.0%	0.1	4.6
H-O or C-O	52.0%	8.50	39.0%	0.25	8.50	9.0%	0.1	5.3
general light industry								
H-W or C-W	92.0%	15.00	5.0%	0.25	15.00	3.0%	0.1	14.0
H-S or C-C	92.0%	7.50	5.0%	0.25	7.50	3.0%	0.1	7.0
H-O or C-O	92.0%	8.50	5.0%	0.25	8.50	3.0%	0.1	7.9
apartments low rise								
H-W or C-W	86.0%	15.00	11.0%	0.25	15.00	3.0%	0.1	13.3
H-S or C-C	86.0%	7.50	11.0%	0.25	7.50	3.0%	0.1	6.7
H-O or C-O	86.0%	8.50	11.0%	0.25	8.50	3.0%	0.1	7.5
apartments mid rise								
H-W or C-W	86.0%	15.00	11.0%	0.25	15.00	3.0%	0.1	13.3
H-S or C-C	86.0%	7.50	11.0%	0.25	7.50	3.0%	0.1	6.7
H-O or C-O	86.0%	8.50	11.0%	0.25	8.50	3.0%	0.1	7.5
Single Family Home								
H-W or C-W	86.0%	15	11.0%	0.25	15	3.0%	0.1	13.3
H-S or C-C	86.0%	7.5	11.0%	0.25	7.5	3.0%	0.1	6.7
H-O or C-O	86.0%	8.5	11.0%	0.25	8.5	3.0%	0.1	7.5
regional shopping center								
H-W or C-W	54.0%	15	35.0%	0.25	15	11.0%	0.1	9.4
H-S or C-C	54.0%	7.5	35.0%	0.25	7.5	11.0%	0.1	4.7
H-O or C-O	54.0%	8.5	35.0%	0.25	8.5	11.0%	0.1	5.3

VMT Calc Per Land Use Type (Weekly)

VMT = #Trips x AVG Trip Length per land use and trip type

Trip number for each trip type are derived by multiplying the total trips for each land use calculated above in the Total Trip Calc by the trip % shown in the Trip Type table for each land use

Land Use	# trips	trip length	Weekly VMT	Annual VMT
city park				
H-W or C-W	711	11.0	7,791	
H-S or C-C	1,034	5.5	5,669	
H-O or C-O	409	6.2	2,543	
Total VMT			16,003	832,146.20
elementary school				
H-W or C-W	6,289	10.4	65,400	
H-S or C-C	2,903	5.2	15,110	
H-O or C-O	484	5.9	2,853	
Total VMT			83,363	4,334,867
general office building				
H-W or C-W	8,038	12.3	98,602	
H-S or C-C	11,692	6.1	71,734	
H-O or C-O	4,628	7.0	32,178	
Total VMT			202,514	10,530,754
research & development				
H-W or C-W	2,142	12.9	27,556	
H-S or C-C	3,115	6.4	20,045	
H-O or C-O	1,233	7.3	8,992	
Total VMT			56,593	2,942,852.14
health club				
H-W or C-W	538	9.3	4,989	
H-S or C-C	2,041	4.6	9,470	
H-O or C-O	605	5.3	3,180	
Total VMT			17,639	917,217.12
general light industry				
H-W or C-W	777	14.0	10,874	
H-S or C-C	369	7.0	2,581	
H-O or C-O	171	7.9	1,358	
Total VMT			14,813	770,287.67
apartments low rise				
H-W or C-W	9,642	13.3	128,384	
H-S or C-C	2,592	6.7	17,260	
H-O or C-O	8,501	7.5	64,157	
Total VMT			209,801	10,909,638.50
apartments mid rise				
H-W or C-W	16,524	13.3	220,025	
H-S or C-C	4,442	6.7	29,580	
H-O or C-O	14,570	7.5	109,953	
Total VMT			359,558	18,697,025.53
Single Family Home				
H-W or C-W	70,449	13.3	938,067	
H-S or C-C	18,938	6.7	126,113	
H-O or C-O	62,117	7.5	468,778	
Total VMT			1,532,958	79,713,835
regional shopping center				
H-W or C-W	8,706.1	9.42	82,041.5	
H-S or C-C	34,557.1	4.72	163,014.7	
H-O or C-O	10,148.2	5.34	54,239.4	
Total VMT			299,295.5	15,563,366

Annual VMT Calc

the calculated weekly VMT for each land use is summed. This value is multiplied by 52 weeks/year to equal the annual VMT number calculated by CalEEMod

Summed Weekly VMT from Each Land Use	2,792,538.25	
Weeks per Year CalEEMod Uses for Annual VMT	52.00	52.0000 52.14285714
Calculated Annual VMT	145,211,989	92,810,195

CalEEMod VMT Calculator (MITIGATED SCENARIO)

This calculator was created based on the default trip inputs for the unmitigated CalEEMod run. The calculator calculates the annual VMT from the proposed project using the same methodology from CalEEMod, described in Appendix A, for the UNMITIGATED SCENARIO. This calculator can be used to adjust land use trip rates for the MITIGATED PROJECT scenario which is based on the traffic study conducted for the project

Traffic Study Annual VMT **70,305,557**

Trip Type

CalEEMod defaults based on land uses inputted

Land Use	Miles			Trip %			Trip Purpose		
	H-w or C-W	H-S or C-C	H-O or C-O	H-w or C-W	H-S or C-C	H-O or C-O	Primary	Diverted	Pass-by
city park	10.00	6.00	7.00	33.0%	48.0%	19.0%	66.0%	28.0%	6.0%
elementary school	10.00	6.00	7.00	65.0%	30.0%	5.0%	63.0%	25.0%	12.0%
general office building	10.00	6.00	7.00	33.0%	48.0%	19.0%	77.0%	19.0%	4.0%
research & development	10.00	6.00	7.00	33.0%	48.0%	19.0%	82.0%	15.0%	3.0%
health club	10.00	6.00	7.00	16.9%	64.1%	19.0%	52.0%	39.0%	9.0%
general light industry	10.00	6.00	6.00	59.0%	28.0%	13.0%	92.0%	5.0%	3.0%
apartments low rise	10.00	6.00	6.00	46.5%	12.5%	41.0%	86.0%	11.0%	3.0%
apartments mid rise	10.00	6.00	6.00	46.5%	12.5%	41.0%	86.0%	11.0%	3.0%
Single Family Home	10.00	6.00	6.73	46.5%	12.5%	41.0%	86.0%	11.0%	3.0%
regional shopping center	15.00	6.00	7.00	16.3%	64.7%	19.0%	54.0%	35.0%	11.0%

Total Trips

Total Trips = (TripRate weekday x 5 + Trip Sat + Trip Sun)

Average Daily Trips Based on CalEEMod Trip Gen Defaults per land use unit. Total Trips Calculated

Land Use	Average Daily Trip Rate			Total Trips (weekly)	Average Daily Trip Rate CalEEMod Inputs		
	weekday	Saturday	Sunday		weekday	Saturday	Sunday
city park	57	650	600	1535	1.295	14.763	13.627
elementary school	1800	0	0	9000	1.200	0	0
general office building	4000	800	300	21000	9.633	1.927	0.722
research & development	1000	200	100	5300	6.711	1.342	0.671
health club	300	200	200	1900	20.000	13.333	13.333
general light industry	15	15	15	105	0.420	0.420	0.420
apartments low rise	2000	2000	1500	13500	4.454	4.454	3.341
apartments mid rise	3700	4000	3000	25000	4.738	5.122	3.841
Single Family Home	14000	14000	14000	98000	6.111	6.111	6.111
regional shopping center	4000	5000	3000	28000	21.622	27.027	16.216
	30872	26865	22715	29134.28571			

Trip Length Calc

AVG Trip Length = Link % primary x trip length primary + link % diverted x 0.25 x length trip primary + link % passby x 0.1

Trip length calculated for each trip type based on trip purpose % and length defaults from CalEEMod

Land Use	link % primary	trip length primary	link % diverted	Constant (0.25)	trip length primary	link % passby	constant	Trip Length
city park								
H-w or c-w	66.0%	10.00	28.0%	0.25	10	6.0%	0.1	7.3
h-s or c-c	66.0%	6.00	28.0%	0.25	6	6.0%	0.1	4.4
h-o or c-o	66.0%	7.00	28.0%	0.25	7	6.0%	0.1	5.1
elementary school								
H-w or c-w	63.0%	10.00	25.0%	0.25	10.00	12.0%	0.1	6.9
h-s or c-c	63.0%	6	25.0%	0.25	6.00	12.0%	0.1	4.2
h-o or c-o	63.0%	7	25.0%	0.25	7.00	12.0%	0.1	4.9
general office building								
H-w or c-w	77.0%	10.00	19.0%	0.25	10.00	4.0%	0.1	8.2
h-s or c-c	77.0%	6.00	19.0%	0.25	6.00	4.0%	0.1	4.9
h-o or c-o	77.0%	7.00	19.0%	0.25	7.00	4.0%	0.1	5.7
research & development								
H-w or c-w	82.0%	10.00	15.0%	0.25	10.00	3.0%	0.1	8.6
h-s or c-c	82.0%	6.00	15.0%	0.25	6.00	3.0%	0.1	5.1
h-o or c-o	82.0%	7.00	15.0%	0.25	7.00	3.0%	0.1	6.0
health club								
H-w or c-w	52.0%	10.00	39.0%	0.25	10.00	9.0%	0.1	6.2
h-s or c-c	52.0%	6.00	39.0%	0.25	6.00	9.0%	0.1	3.7
h-o or c-o	52.0%	7.00	39.0%	0.25	7.00	9.0%	0.1	4.3
general light industry								
H-w or c-w	92.0%	10.00	5.0%	0.25	10.00	3.0%	0.1	9.3
h-s or c-c	92.0%	6.00	5.0%	0.25	6.00	3.0%	0.1	5.6
h-o or c-o	92.0%	6.00	5.0%	0.25	6.00	3.0%	0.1	5.6
apartments low rise								
H-w or c-w	86.0%	10.00	11.0%	0.25	10.00	3.0%	0.1	8.9
h-s or c-c	86.0%	6.00	11.0%	0.25	6.00	3.0%	0.1	5.3
h-o or c-o	86.0%	6.00	11.0%	0.25	6.00	3.0%	0.1	5.3
apartments mid rise								
H-w or c-w	86.0%	10.00	11.0%	0.25	10.00	3.0%	0.1	8.9
h-s or c-c	86.0%	6.00	11.0%	0.25	6.00	3.0%	0.1	5.3
h-o or c-o	86.0%	6.00	11.0%	0.25	6.00	3.0%	0.1	5.3
Single Family Home								
H-w or c-w	86.0%	10	11.0%	0.25	10	3.0%	0.1	8.9
h-s or c-c	86.0%	6	11.0%	0.25	6	3.0%	0.1	5.3
h-o or c-o	86.0%	6.73	11.0%	0.25	6.73	3.0%	0.1	6.0
regional shopping center								
H-w or c-w	54.0%	15	35.0%	0.25	15	11.0%	0.1	9.4
h-s or c-c	54.0%	6	35.0%	0.25	6	11.0%	0.1	3.8
h-o or c-o	54.0%	7	35.0%	0.25	7	11.0%	0.1	4.4

VMT Calc Per Land Use Type (Weekly)

VMT = #Trips x AVG Trip Length per land use and trip type

Trip number for each trip type are derived by multiplying the total trips for each land use calculated above in the Total Trip Calc by the trip % shown in the Trip Type table for each land use

Land Use	# trips	trip length	Weekly VMT	Annual VMT
city park				
H-w or c-w	507	7.3	3,701	
h-s or c-c	737	4.4	3,232	
h-o or c-o	292	5.1	1,492	
Total VMT			8,425	438,076.11
elementary school				
H-w or c-w	5,850	6.9	40,581	
h-s or c-c	2,700	4.2	11,251	
h-o or c-o	450	4.9	2,187	
Total VMT			54,019	2,808,995
general office building				
H-w or c-w	6,963	8.2	56,950	
h-s or c-c	10,128	4.9	49,718	
h-o or c-o	4,009	5.7	22,958	
Total VMT			129,626	6,740,566
research & development				
H-w or c-w	1,749	8.6	15,003	
h-s or c-c	2,544	5.1	13,097	
h-o or c-o	1,007	6.0	6,048	
Total VMT			34,147	1,775,642.57
health club				
H-w or c-w	321	6.2	1,986	
h-s or c-c	1,218	3.7	4,523	
h-o or c-o	361	4.3	1,564	
Total VMT			8,073	419,776.99
general light industry				
H-w or c-w	62	9.3	578	
h-s or c-c	29	5.6	165	
h-o or c-o	14	5.6	76	
Total VMT			819	42,580.90
apartments low rise				
H-w or c-w	6,278	8.9	55,732	
h-s or c-c	1,688	5.3	8,991	
h-o or c-o	5,535	5.3	29,490	
Total VMT			94,213	4,899,082.50
apartments mid rise				
H-w or c-w	11,858	8.9	105,271	
h-s or c-c	3,188	5.3	16,983	
h-o or c-o	10,455	5.3	55,704	
Total VMT			177,958	9,253,822.50
Single Family Home				
H-w or c-w	45,570	8.9	404,570	
h-s or c-c	12,250	5.3	65,268	
h-o or c-o	40,180	6.0	240,111	
Total VMT			709,949	36,917,354
regional shopping center				
H-w or c-w	4,564.0	9.42	43,008.9	
h-s or c-c	18,116.0	3.78	68,406.0	
h-o or c-o	5,320.0	4.40	23,426.6	
Total VMT			134,841.5	7,011,757

Annual VMT Calc

the calculated weekly VMT for each land use is summed. This value is multiplied by 50 weeks/year to equal the annual VMT number calculated by CalEEMod

Summed Weekly VMT from Each Land Use	1,352,070.26	
Weeks per Year CalEEMod Uses for Annual VMT	52.00	52.0000 52.14285714
Calculated Annual VMT	70,307,654	48,093,772

192,624

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SACRAMENTO

Calendar Year: 2032

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	Calendar Y	Vehicle Cal	Model	Yea	Speed	Fuel	VMT	CO2_RUNE	CO2 Averag	N2O_RUNI	N2O Average (g/mi)
SACRAMEN	2032	All Other B	Aggregate			5 DSL	342.872	2295.367			0.3608
SACRAMEN	2032	LDA	Aggregate			5 GAS	1005.544	505.5153			0.005702
SACRAMEN	2032	LDA	Aggregate			5 DSL	12.02267	417.3598			0.065603
SACRAMEN	2032	LDT1	Aggregate			5 GAS	97.55998	594.7913			0.006781
SACRAMEN	2032	LDT1	Aggregate			5 DSL	0.035197	1066.642			0.167661
SACRAMEN	2032	LDT2	Aggregate			5 GAS	316.2826	602.8513			0.00645
SACRAMEN	2032	LDT2	Aggregate			5 DSL	3.032905	554.1217			0.0871
SACRAMEN	2032	LHD1	Aggregate			5 GAS	12594.48	1681.293			0.011807
SACRAMEN	2032	LHD1	Aggregate			5 DSL	7681.839	1064.954			0.167396
SACRAMEN	2032	LHD2	Aggregate			5 GAS	1884.558	1919.225			0.010759
SACRAMEN	2032	LHD2	Aggregate			5 DSL	2918.789	1120.659			0.176152
SACRAMEN	2032	MCY	Aggregate			5 GAS	8.613017	539.5827			0.09472
SACRAMEN	2032	MDV	Aggregate			5 GAS	194.6641	737.5969			0.007234
SACRAMEN	2032	MDV	Aggregate			5 DSL	6.597142	687.7906			0.108111
SACRAMEN	2032	MH	Aggregate			5 GAS	180.829	3447.007			0.02663
SACRAMEN	2032	MH	Aggregate			5 DSL	73.65825	1825.387			0.286925
SACRAMEN	2032	Motor Coa	Aggregate			5 DSL	129.3731	3199.432			0.502906
SACRAMEN	2032	OBUS	Aggregate			5 GAS	154.705	3453.269			0.027038
SACRAMEN	2032	SBUS	Aggregate			5 GAS	93.84099	1661.362			0.021091
SACRAMEN	2032	SBUS	Aggregate			5 DSL	375.7661	2291.129			0.360134
SACRAMEN	2032	T6 Ag	Aggregate			5 DSL	0.224343	2754.421			0.432957
SACRAMEN	2032	T6 CAIRP h	Aggregate			5 DSL	201.9533	1773.155			0.278715
SACRAMEN	2032	T6 CAIRP s	Aggregate			5 DSL	29.94324	1958.85			0.307904
SACRAMEN	2032	T6 instate	Aggregate			5 DSL	2253.109	2246.64			0.35314
SACRAMEN	2032	T6 instate	Aggregate			5 DSL	16529.56	2062.454			0.324189
SACRAMEN	2032	T6 instate l	Aggregate			5 DSL	3289.367	2001.565			0.314618
SACRAMEN	2032	T6 instate r	Aggregate			5 DSL	4221.918	2066.772			0.324868
SACRAMEN	2032	T6 OOS he	Aggregate			5 DSL	112.2985	1771.581			0.278468
SACRAMEN	2032	T6 OOS sm	Aggregate			5 DSL	15.80158	1961.889			0.308382
SACRAMEN	2032	T6 Public	Aggregate			5 DSL	2613.658	2124.318			0.333913
SACRAMEN	2032	T6 utility	Aggregate			5 DSL	45.03336	1986.277			0.312215
SACRAMEN	2032	T6TS	Aggregate			5 GAS	709.7659	3412.383			0.018929
SACRAMEN	2032	T7 Ag	Aggregate			5 DSL	0.148239	4257.219			0.669176
SACRAMEN	2032	T7 CAIRP	Aggregate			5 DSL	1419.007	2561.283			0.402598
SACRAMEN	2032	T7 CAIRP c	Aggregate			5 DSL	1648.255	2774.253			0.436074
SACRAMEN	2032	T7 NNOOS	Aggregate			5 DSL	1729.962	2465.346			0.387518
SACRAMEN	2032	T7 NOOS	Aggregate			5 DSL	557.5787	2567.803			0.403623
SACRAMEN	2032	T7 other pr	Aggregate			5 DSL	89.843	2786.406			0.437984
SACRAMEN	2032	T7 POAK	Aggregate			5 DSL	357.8318	2831.533			0.445078
SACRAMEN	2032	T7 Public	Aggregate			5 DSL	3878.063	3144.113			0.494211
SACRAMEN	2032	T7 Single	Aggregate			5 DSL	2278.742	3017.461			0.474303
SACRAMEN	2032	T7 single cr	Aggregate			5 DSL	4089.017	3135.564			0.492867
SACRAMEN	2032	T7 SWCV	Aggregate			5 DSL	585.737	6966.094			1.094973
SACRAMEN	2032	T7 SWCV	Aggregate			5 NG	413.2911	4758.184			0.969987
SACRAMEN	2032	T7 tractor	Aggregate			5 DSL	529.3237	2831.368			0.445052
SACRAMEN	2032	T7 tractor r	Aggregate			5 DSL	3373.079	3131.342			0.492203
SACRAMEN	2032	T7 utility	Aggregate			5 DSL	7.349389	3301.932			0.519018
SACRAMEN	2032	T7IS	Aggregate			5 GAS	2.34244	3880.476			0.237612
SACRAMEN	2032	UBUS	Aggregate			5 GAS	330.8708	3267.563			0.036705
SACRAMEN	2032	UBUS	Aggregate			5 DSL	0	0			0
SACRAMEN	2032	UBUS	Aggregate			5 NG	892.9721	2847.558	2150.787	0.580493	0.283633
SACRAMEN	2032	All Other B	Aggregate			10 DSL	1036.541	1897.78			0.298305
SACRAMEN	2032	LDA	Aggregate			10 GAS	76649.25	413.1951			0.004926
SACRAMEN	2032	LDA	Aggregate			10 DSL	916.4481	347.7001			0.054654
SACRAMEN	2032	LDT1	Aggregate			10 GAS	7436.672	485.6759			0.005829
SACRAMEN	2032	LDT1	Aggregate			10 DSL	2.68297	897.8635			0.141132
SACRAMEN	2032	LDT2	Aggregate			10 GAS	24109.17	492.0215			0.005555
SACRAMEN	2032	LDT2	Aggregate			10 DSL	231.1882	466.4411			0.073318
SACRAMEN	2032	LHD1	Aggregate			10 GAS	32841.13	1364.872			0.010244
SACRAMEN	2032	LHD1	Aggregate			10 DSL	25545.62	895.2598			0.140722
SACRAMEN	2032	LHD2	Aggregate			10 GAS	4914.138	1558.007			0.009332
SACRAMEN	2032	LHD2	Aggregate			10 DSL	9706.303	995.9643			0.156552
SACRAMEN	2032	MCY	Aggregate			10 GAS	656.5416	426.7827			0.08468
SACRAMEN	2032	MDV	Aggregate			10 GAS	14838.59	601.4694			0.006213
SACRAMEN	2032	MDV	Aggregate			10 DSL	502.8782	584.1017			0.091813
SACRAMEN	2032	MH	Aggregate			10 GAS	909.0291	2798.223			0.02316
SACRAMEN	2032	MH	Aggregate			10 DSL	366.643	1657.459			0.260529
SACRAMEN	2032	Motor Coa	Aggregate			10 DSL	294.1663	2645.25			0.415796
SACRAMEN	2032	OBUS	Aggregate			10 GAS	777.7034	2803.343			0.023514
SACRAMEN	2032	SBUS	Aggregate			10 GAS	328.9079	1348.668			0.018248
SACRAMEN	2032	SBUS	Aggregate			10 DSL	925.0379	1968.204			0.309374
SACRAMEN	2032	T6 Ag	Aggregate			10 DSL	0.686839	2277.32			0.357963
SACRAMEN	2032	T6 CAIRP h	Aggregate			10 DSL	458.6152	1466.022			0.230438
SACRAMEN	2032	T6 CAIRP s	Aggregate			10 DSL	67.99804	1619.553			0.254571
SACRAMEN	2032	T6 instate	Aggregate			10 DSL	1664.686	1858.87			0.292188
SACRAMEN	2032	T6 instate r	Aggregate			10 DSL	12212.69	1705.263			0.268044
SACRAMEN	2032	T6 instate l	Aggregate			10 DSL	7462.058	1654.869			0.260122
SACRAMEN	2032	T6 instate r	Aggregate			10 DSL	9577.586	1708.781			0.268597
SACRAMEN	2032	T6 OOS he	Aggregate			10 DSL	255.0183	1464.721			0.230234
SACRAMEN	2032	T6 OOS sm	Aggregate			10 DSL	35.88376	1622.065			0.254966
SACRAMEN	2032	T6 Public	Aggregate			10 DSL	4973.04	1780.274			0.279834
SACRAMEN	2032	T6 utility	Aggregate			10 DSL	161.7883	1642.228			0.258135
SACRAMEN	2032	T6TS	Aggregate			10 GAS	3568	2770.129			0.016462
SACRAMEN	2032	T7 Ag	Aggregate			10 DSL	0.4968	3519.815			0.553266
SACRAMEN	2032	T7 CAIRP	Aggregate			10 DSL	3226.513	2117.636			0.332863

SACRAMEN	2032 T7 CAIRP c	Aggregate	10 DSL	1133.729	2293.717		0.36054
SACRAMEN	2032 T7 NNOOS	Aggregate	10 DSL	3933.555	2038.317		0.320395
SACRAMEN	2032 T7 NOOS	Aggregate	10 DSL	1267.812	2123.027		0.33371
SACRAMEN	2032 T7 other pr	Aggregate	10 DSL	163.4181	2303.765		0.36212
SACRAMEN	2032 T7 POAK	Aggregate	10 DSL	650.871	2341.075		0.367984
SACRAMEN	2032 T7 Public	Aggregate	10 DSL	6805.464	2648.983		0.416383
SACRAMEN	2032 T7 Single	Aggregate	10 DSL	5309.665	2494.799		0.392148
SACRAMEN	2032 T7 single cr	Aggregate	10 DSL	2812.573	2594.214		0.407774
SACRAMEN	2032 T7 SWCV	Aggregate	10 DSL	1531.402	5894.088		0.926468
SACRAMEN	2032 T7 SWCV	Aggregate	10 NG	1080.544	4222.745		0.860834
SACRAMEN	2032 T7 tractor	Aggregate	10 DSL	1130.45	2340.939		0.367963
SACRAMEN	2032 T7 tractor r	Aggregate	10 DSL	2320.125	2589.484		0.407031
SACRAMEN	2032 T7 utility	Aggregate	10 DSL	28.89067	2729.995		0.429117
SACRAMEN	2032 T7IS	Aggregate	10 GAS	11.44871	3156.894		0.20509
SACRAMEN	2032 UBUS	Aggregate	10 GAS	1095.004	2653.576		0.031916
SACRAMEN	2032 UBUS	Aggregate	10 DSL	0	0		0
SACRAMEN	2032 UBUS	Aggregate	10 NG	2957.876	2448.075	1141.701	0.499056 0.114352
SACRAMEN	2032 All Other B	Aggregate	15 DSL	1179.006	1493.394		0.234741
SACRAMEN	2032 LDA	Aggregate	15 GAS	243047.8	337.746		0.004339
SACRAMEN	2032 LDA	Aggregate	15 DSL	2905.973	285.9824		0.044952
SACRAMEN	2032 LDT1	Aggregate	15 GAS	23581	397.0321		0.005117
SACRAMEN	2032 LDT1	Aggregate	15 DSL	8.507451	744.4768		0.117021
SACRAMEN	2032 LDT2	Aggregate	15 GAS	76447.97	402.2479		0.004883
SACRAMEN	2032 LDT2	Aggregate	15 DSL	733.0766	386.7565		0.060793
SACRAMEN	2032 LHD1	Aggregate	15 GAS	74783.68	1116.218		0.009025
SACRAMEN	2032 LHD1	Aggregate	15 DSL	55324.48	584.6796		0.091903
SACRAMEN	2032 LHD2	Aggregate	15 GAS	11190.16	1274.142		0.008223
SACRAMEN	2032 LHD2	Aggregate	15 DSL	21021.07	662.9835		0.104212
SACRAMEN	2032 MCV	Aggregate	15 GAS	2081.833	344.0436		0.077508
SACRAMEN	2032 MDV	Aggregate	15 GAS	47051.82	491.7516		0.005451
SACRAMEN	2032 MDV	Aggregate	15 DSL	1594.581	495.3574		0.077863
SACRAMEN	2032 MH	Aggregate	15 GAS	1148.26	2288.385		0.0203
SACRAMEN	2032 MH	Aggregate	15 DSL	494.8408	1360.918		0.213917
SACRAMEN	2032 Motor Coa	Aggregate	15 DSL	275.0948	2081.59		0.327197
SACRAMEN	2032 OBUS	Aggregate	15 GAS	982.3728	2292.634		0.020611
SACRAMEN	2032 SBUS	Aggregate	15 GAS	657.8157	1102.94		0.016112
SACRAMEN	2032 SBUS	Aggregate	15 DSL	1188.182	1585.904		0.249282
SACRAMEN	2032 T6 Ag	Aggregate	15 DSL	0.657046	1792.06		0.281687
SACRAMEN	2032 T6 CAIRP h	Aggregate	15 DSL	447.5676	1153.637		0.181336
SACRAMEN	2032 T6 CAIRP s	Aggregate	15 DSL	66.36004	1274.452		0.200326
SACRAMEN	2032 T6 instate r	Aggregate	15 DSL	435.9051	1463.346		0.230018
SACRAMEN	2032 T6 instate r	Aggregate	15 DSL	3197.945	1341.926		0.210932
SACRAMEN	2032 T6 instate l	Aggregate	15 DSL	9531.294	1302.243		0.204694
SACRAMEN	2032 T6 instate :	Aggregate	15 DSL	12233.46	1344.668		0.211363
SACRAMEN	2032 T6 OOS he	Aggregate	15 DSL	248.8752	1152.612		0.181175
SACRAMEN	2032 T6 OOS sm	Aggregate	15 DSL	35.01936	1276.429		0.200637
SACRAMEN	2032 T6 Public	Aggregate	15 DSL	3977.65	1412.206		0.221979
SACRAMEN	2032 T6 utility	Aggregate	15 DSL	172.1535	1292.296		0.203131
SACRAMEN	2032 T6TS	Aggregate	15 GAS	4506.995	2265.424		0.014429
SACRAMEN	2032 T7 Ag	Aggregate	15 DSL	0.488357	2769.8		0.435374
SACRAMEN	2032 T7 CAIRP	Aggregate	15 DSL	3017.331	1666.403		0.261935
SACRAMEN	2032 T7 CAIRP c	Aggregate	15 DSL	240.8391	1804.964		0.283715
SACRAMEN	2032 T7 NNOOS	Aggregate	15 DSL	3678.534	1603.985		0.252124
SACRAMEN	2032 T7 NOOS	Aggregate	15 DSL	1185.617	1670.645		0.262602
SACRAMEN	2032 T7 other pr	Aggregate	15 DSL	151.0929	1812.87		0.284958
SACRAMEN	2032 T7 POAK	Aggregate	15 DSL	601.7815	1842.23		0.289573
SACRAMEN	2032 T7 Public	Aggregate	15 DSL	5226.935	2109.393		0.331567
SACRAMEN	2032 T7 Single	Aggregate	15 DSL	6603.188	1963.198		0.308587
SACRAMEN	2032 T7 single cr	Aggregate	15 DSL	597.4775	2042.148		0.320997
SACRAMEN	2032 T7 SWCV	Aggregate	15 DSL	1638.751	4698.937		0.738607
SACRAMEN	2032 T7 SWCV	Aggregate	15 NG	1156.289	3543.536		0.722373
SACRAMEN	2032 T7 tractor	Aggregate	15 DSL	1441.363	1842.123		0.289556
SACRAMEN	2032 T7 tractor r	Aggregate	15 DSL	492.8663	2037.957		0.320338
SACRAMEN	2032 T7 utility	Aggregate	15 DSL	28.46222	2148.278		0.337679
SACRAMEN	2032 T7IS	Aggregate	15 GAS	12.485	2588.09		0.180777
SACRAMEN	2032 UBUS	Aggregate	15 GAS	1869.245	2168.321		0.02811
SACRAMEN	2032 UBUS	Aggregate	15 DSL	0	0		0
SACRAMEN	2032 UBUS	Aggregate	15 NG	5039.695	2214.392	669.1913	0.451418 0.045476
SACRAMEN	2032 All Other B	Aggregate	20 DSL	1369.312	1275.335		0.200465
SACRAMEN	2032 LDA	Aggregate	20 GAS	911369.7	280.0811		0.003895
SACRAMEN	2032 LDA	Aggregate	20 DSL	10896.69	234.5984		0.036876
SACRAMEN	2032 LDT1	Aggregate	20 GAS	88423	329.3725		0.004582
SACRAMEN	2032 LDT1	Aggregate	20 DSL	31.90086	611.6446		0.096142
SACRAMEN	2032 LDT2	Aggregate	20 GAS	286661.2	333.7696		0.004376
SACRAMEN	2032 LDT2	Aggregate	20 DSL	2748.858	317.75		0.049946
SACRAMEN	2032 LHD1	Aggregate	20 GAS	86411.96	927.8655		0.008126
SACRAMEN	2032 LHD1	Aggregate	20 DSL	60653.5	498.351		0.078334
SACRAMEN	2032 LHD2	Aggregate	20 GAS	12930.14	1059.118		0.007405
SACRAMEN	2032 LHD2	Aggregate	20 DSL	23045.88	565.4762		0.088885
SACRAMEN	2032 MCV	Aggregate	20 GAS	7806.366	283.9416		0.072344
SACRAMEN	2032 MDV	Aggregate	20 GAS	176432.8	408.1548		0.004878
SACRAMEN	2032 MDV	Aggregate	20 DSL	5979.287	411.3924		0.064665
SACRAMEN	2032 MH	Aggregate	20 GAS	1191.027	1902.193		0.018214
SACRAMEN	2032 MH	Aggregate	20 DSL	524.7967	1116.795		0.175545
SACRAMEN	2032 Motor Coa	Aggregate	20 DSL	401.9162	1777.645		0.279421
SACRAMEN	2032 OBUS	Aggregate	20 GAS	1018.962	1905.781		0.018492
SACRAMEN	2032 PTO	Aggregate	20 DSL	33535.95	1676.54		0.263529
SACRAMEN	2032 SBUS	Aggregate	20 GAS	892.8778	916.8086		0.014449
SACRAMEN	2032 SBUS	Aggregate	20 DSL	1568.251	1344.042		0.211265
SACRAMEN	2032 T6 Ag	Aggregate	20 DSL	0.505762	1530.391		0.240556
SACRAMEN	2032 T6 CAIRP h	Aggregate	20 DSL	578.7176	985.1876		0.154858
SACRAMEN	2032 T6 CAIRP s	Aggregate	20 DSL	85.80541	1088.362		0.171075
SACRAMEN	2032 T6 instate r	Aggregate	20 DSL	378.9961	1249.314		0.196375
SACRAMEN	2032 T6 instate r	Aggregate	20 DSL	2780.441	1145.978		0.180132

SACRAMEN	2032 T6 instate l	Aggregator	20	DSL	12572.39	1112.095			0.174806
SACRAMEN	2032 T6 instate :	Aggregator	20	DSL	16136.72	1148.325			0.180501
SACRAMEN	2032 T6 OOS he:	Aggregator	20	DSL	321.8027	984.3129			0.15472
SACRAMEN	2032 T6 OOS sm	Aggregator	20	DSL	45.28102	1090.051			0.171341
SACRAMEN	2032 T6 Public	Aggregator	20	DSL	2967.516	1201.654			0.188883
SACRAMEN	2032 T6 utility	Aggregator	20	DSL	145.0899	1103.601			0.173471
SACRAMEN	2032 T6TS	Aggregator	20	GAS	4674.861	1883.12			0.012946
SACRAMEN	2032 T7 Ag	Aggregator	20	DSL	0.372285	2365.365			0.371802
SACRAMEN	2032 T7 CAIRP	Aggregator	20	DSL	4408.35	1423.082			0.223689
SACRAMEN	2032 T7 CAIRP c	Aggregator	20	DSL	239.9203	1541.411			0.242288
SACRAMEN	2032 T7 NNOOS	Aggregator	20	DSL	5374.375	1369.778			0.21531
SACRAMEN	2032 T7 NOOS	Aggregator	20	DSL	1732.198	1426.704			0.224258
SACRAMEN	2032 T7 other pr	Aggregator	20	DSL	116.8347	1548.163			0.24335
SACRAMEN	2032 T7 POAK	Aggregator	20	DSL	465.3359	1573.236			0.247291
SACRAMEN	2032 T7 Public	Aggregator	20	DSL	3902.799	1794.377			0.282051
SACRAMEN	2032 T7 Single	Aggregator	20	DSL	8436.533	1676.54			0.263529
SACRAMEN	2032 T7 single cr	Aggregator	20	DSL	595.1982	1743.468			0.274049
SACRAMEN	2032 T7 SWCV	Aggregator	20	DSL	1377.002	3983.675			0.626178
SACRAMEN	2032 T7 SWCV	Aggregator	20	NG	971.6011	3093.49			0.630628
SACRAMEN	2032 T7 tractor	Aggregator	20	DSL	1646.92	1573.144			0.247276
SACRAMEN	2032 T7 tractor	Aggregator	20	DSL	490.9861	1740.284			0.273548
SACRAMEN	2032 T7 utility	Aggregator	20	DSL	22.28189	1834.595			0.288373
SACRAMEN	2032 T7IS	Aggregator	20	GAS	21.33666	2156.403			0.163283
SACRAMEN	2032 UBUS	Aggregator	20	GAS	16259.77	1807.906			0.025407
SACRAMEN	2032 UBUS	Aggregator	20	DSL	0	0			0
SACRAMEN	2032 UBUS	Aggregator	20	NG	44150.22	2048.591	479.6777		0.417619 0.031686
SACRAMEN	2032 All Other B	Aggregator	25	DSL	1665.512	1112.965			0.174943
SACRAMEN	2032 LDA	Aggregator	25	GAS	2943496	239.0312			0.003555
SACRAMEN	2032 LDA	Aggregator	25	DSL	35193.58	196.6501			0.030911
SACRAMEN	2032 LDT1	Aggregator	25	GAS	285584.2	281.1701			0.004175
SACRAMEN	2032 LDT1	Aggregator	25	DSL	103.0318	512.8419			0.080612
SACRAMEN	2032 LDT2	Aggregator	25	GAS	925844.1	284.9642			0.003991
SACRAMEN	2032 LDT2	Aggregator	25	DSL	8878.124	266.4219			0.041878
SACRAMEN	2032 LHD1	Aggregator	25	GAS	66563.85	793.1058			0.007496
SACRAMEN	2032 LHD1	Aggregator	25	DSL	64915.43	441.9899			0.069475
SACRAMEN	2032 LHD2	Aggregator	25	GAS	9960.192	905.2806			0.006837
SACRAMEN	2032 LHD2	Aggregator	25	DSL	24665.24	503.9277			0.07921
SACRAMEN	2032 MCV	Aggregator	25	GAS	25212.61	241.7576			0.068598
SACRAMEN	2032 MDV	Aggregator	25	GAS	569833.9	348.5375			0.004444
SACRAMEN	2032 MDV	Aggregator	25	DSL	19311.6	347.8746			0.054681
SACRAMEN	2032 MH	Aggregator	25	GAS	1327.08	1625.901			0.016592
SACRAMEN	2032 MH	Aggregator	25	DSL	546.5549	1001.719			0.157456
SACRAMEN	2032 Motor Coa	Aggregator	25	DSL	353.5039	1551.323			0.243846
SACRAMEN	2032 OBUS	Aggregator	25	GAS	1135.359	1629.008			0.016845
SACRAMEN	2032 SBUS	Aggregator	25	GAS	1409.468	783.6442			0.013182
SACRAMEN	2032 SBUS	Aggregator	25	DSL	2016.908	1190.089			0.187065
SACRAMEN	2032 T6 Ag	Aggregator	25	DSL	0.516097	1335.548			0.20993
SACRAMEN	2032 T6 CAIRP h	Aggregator	25	DSL	497.5077	859.7575			0.135142
SACRAMEN	2032 T6 CAIRP s	Aggregator	25	DSL	73.76457	949.7965			0.149295
SACRAMEN	2032 T6 instate	Aggregator	25	DSL	503.5252	1090.527			0.171416
SACRAMEN	2032 T6 instate	Aggregator	25	DSL	3694.029	1000.089			0.1572
SACRAMEN	2032 T6 instate l	Aggregator	25	DSL	17567.84	970.5077			0.15255
SACRAMEN	2032 T6 instate :	Aggregator	25	DSL	22548.4	1002.125			0.15752
SACRAMEN	2032 T6 OOS he:	Aggregator	25	DSL	276.645	858.9942			0.135022
SACRAMEN	2032 T6 OOS sm	Aggregator	25	DSL	38.92686	951.2697			0.149526
SACRAMEN	2032 T6 Public	Aggregator	25	DSL	4204.718	1053.922			0.165662
SACRAMEN	2032 T6 utility	Aggregator	25	DSL	172.6917	963.0948			0.151385
SACRAMEN	2032 T6TS	Aggregator	25	GAS	5208.876	1609.606			0.011793
SACRAMEN	2032 T7 Ag	Aggregator	25	DSL	0.373909	2064.217			0.324466
SACRAMEN	2032 T7 CAIRP	Aggregator	25	DSL	3877.347	1241.901			0.195209
SACRAMEN	2032 T7 CAIRP c	Aggregator	25	DSL	323.6042	1345.164			0.211441
SACRAMEN	2032 T7 NNOOS	Aggregator	25	DSL	4727.01	1195.383			0.187898
SACRAMEN	2032 T7 NOOS	Aggregator	25	DSL	1523.548	1245.062			0.195706
SACRAMEN	2032 T7 other pr	Aggregator	25	DSL	121.4186	1351.057			0.212367
SACRAMEN	2032 T7 POAK	Aggregator	25	DSL	483.5928	1372.938			0.215807
SACRAMEN	2032 T7 Public	Aggregator	25	DSL	6488.908	1577.452			0.247953
SACRAMEN	2032 T7 Single	Aggregator	25	DSL	11597.46	1463.09			0.229977
SACRAMEN	2032 T7 single cr	Aggregator	25	DSL	802.8025	1521.839			0.239212
SACRAMEN	2032 T7 SWCV	Aggregator	25	DSL	1671.937	3505.082			0.55095
SACRAMEN	2032 T7 SWCV	Aggregator	25	NG	1179.705	2850.57			0.581107
SACRAMEN	2032 T7 tractor	Aggregator	25	DSL	2003.309	1372.858			0.215794
SACRAMEN	2032 T7 tractor	Aggregator	25	DSL	662.2414	1518.835			0.23874
SACRAMEN	2032 T7 utility	Aggregator	25	DSL	27.19757	1601.022			0.251658
SACRAMEN	2032 T7IS	Aggregator	25	GAS	27.8457	1846.969			0.148198
SACRAMEN	2032 UBUS	Aggregator	25	GAS	209.8531	1502.549			0.02153
SACRAMEN	2032 UBUS	Aggregator	25	DSL	0	0			0
SACRAMEN	2032 UBUS	Aggregator	25	NG	533.2676	1919.986	294.5387		0.391402 0.009235
SACRAMEN	2032 All Other B	Aggregator	30	DSL	2271.081	977.7805			0.153693
SACRAMEN	2032 LDA	Aggregator	30	GAS	2055746	212.1924			0.003296
SACRAMEN	2032 LDA	Aggregator	30	DSL	24579.3	170.3351			0.026774
SACRAMEN	2032 LDT1	Aggregator	30	GAS	199452.8	249.5862			0.003867
SACRAMEN	2032 LDT1	Aggregator	30	DSL	71.95772	443.4631			0.069706
SACRAMEN	2032 LDT2	Aggregator	30	GAS	646612.2	252.9499			0.003697
SACRAMEN	2032 LDT2	Aggregator	30	DSL	6200.508	230.3796			0.036212
SACRAMEN	2032 LHD1	Aggregator	30	GAS	58864.29	703.7546			0.006938
SACRAMEN	2032 LHD1	Aggregator	30	DSL	54796.85	401.3746			0.06309
SACRAMEN	2032 LHD2	Aggregator	30	GAS	8808.079	803.2847			0.006326
SACRAMEN	2032 LHD2	Aggregator	30	DSL	20820.59	454.4624			0.071435
SACRAMEN	2032 MCV	Aggregator	30	GAS	17608.56	213.7886			0.065905
SACRAMEN	2032 MDV	Aggregator	30	GAS	397973.7	309.3627			0.004116
SACRAMEN	2032 MDV	Aggregator	30	DSL	13487.28	300.4553			0.047227
SACRAMEN	2032 MH	Aggregator	30	GAS	1500.453	1442.71			0.015419
SACRAMEN	2032 MH	Aggregator	30	DSL	657.188	940.2652			0.147797
SACRAMEN	2032 Motor Coa	Aggregator	30	DSL	195.3854	1362.894			0.214228

SACRAMEN	2032	OBUS	Aggregate	30	GAS	1283.685	1445.482				0.015655
SACRAMEN	2032	SBUS	Aggregate	30	GAS	1690.991	695.3521				0.012219
SACRAMEN	2032	SBUS	Aggregate	30	DSL	2352.783	1076.668				0.169237
SACRAMEN	2032	T6 Ag	Aggregate	30	DSL	0.634727	1173.328				0.184431
SACRAMEN	2032	T6 CAIRP h	Aggregate	30	DSL	315.7446	755.1049				0.118692
SACRAMEN	2032	T6 CAIRP s	Aggregate	30	DSL	46.81489	834.4313				0.131161
SACRAMEN	2032	T6 instate r	Aggregate	30	DSL	579.4865	958.6352				0.150684
SACRAMEN	2032	T6 instate l	Aggregate	30	DSL	4251.306	878.637				0.138109
SACRAMEN	2032	T6 instate h	Aggregate	30	DSL	22397.44	850.6162				0.133705
SACRAMEN	2032	T6 instate s	Aggregate	30	DSL	28747.21	880.4037				0.138387
SACRAMEN	2032	T6 OOS he	Aggregate	30	DSL	175.5735	754.4474				0.118589
SACRAMEN	2032	T6 OOS sm	Aggregate	30	DSL	24.70504	835.7256				0.131364
SACRAMEN	2032	T6 Public	Aggregate	30	DSL	5837.946	935.9025				0.147111
SACRAMEN	2032	T6 utility	Aggregate	30	DSL	223.7778	846.1143				0.132997
SACRAMEN	2032	T6TS	Aggregate	30	GAS	5889.376	1428.255				0.01096
SACRAMEN	2032	T7 Ag	Aggregate	30	DSL	0.478979	1813.491				0.285055
SACRAMEN	2032	T7 CAIRP	Aggregate	30	DSL	2143.052	1090.206				0.171365
SACRAMEN	2032	T7 CAIRP c	Aggregate	30	DSL	388.4747	1181.777				0.185759
SACRAMEN	2032	T7 NNOOS	Aggregate	30	DSL	2612.67	1049.785				0.165012
SACRAMEN	2032	T7 NOOS	Aggregate	30	DSL	842.0817	1092.947				0.171796
SACRAMEN	2032	T7 other pr	Aggregate	30	DSL	150.4598	1186.953				0.186573
SACRAMEN	2032	T7 POAK	Aggregate	30	DSL	599.2597	1206.177				0.189594
SACRAMEN	2032	T7 Public	Aggregate	30	DSL	10544.04	1406.869				0.22114
SACRAMEN	2032	T7 Single	Aggregate	30	DSL	14620.25	1285.378				0.202044
SACRAMEN	2032	T7 single cr	Aggregate	30	DSL	963.7344	1337.728				0.210272
SACRAMEN	2032	T7 SWCV	Aggregate	30	DSL	1739.444	3136.153				0.49296
SACRAMEN	2032	T7 SWCV	Aggregate	30	NG	1227.337	2695.128				0.549419
SACRAMEN	2032	T7 tractor r	Aggregate	30	DSL	2530.149	1203.425				0.189162
SACRAMEN	2032	T7 tractor l	Aggregate	30	DSL	794.996	1334.576				0.209777
SACRAMEN	2032	T7 utility	Aggregate	30	DSL	35.85921	1406.557				0.221091
SACRAMEN	2032	T7IS	Aggregate	30	GAS	50.85147	1640.655				0.136939
SACRAMEN	2032	UBUS	Aggregate	30	GAS	217.8832	1336.99				0.020131
SACRAMEN	2032	UBUS	Aggregate	30	DSL	0	0				0
SACRAMEN	2032	UBUS	Aggregate	30	NG	557.4059	1814.908	275.0555			0.369981 0.01058
SACRAMEN	2032	All Other B	Aggregate	35	DSL	4177.408	873.9368				0.137371
SACRAMEN	2032	LDA	Aggregate	35	GAS	3654097	196.5828				0.003098
SACRAMEN	2032	LDA	Aggregate	35	DSL	43689.8	153.9795				0.024203
SACRAMEN	2032	LDT1	Aggregate	35	GAS	354528.2	231.2437				0.003635
SACRAMEN	2032	LDT1	Aggregate	35	DSL	127.9051	400.2425				0.062913
SACRAMEN	2032	LDT2	Aggregate	35	GAS	1149356	234.3705				0.003475
SACRAMEN	2032	LDT2	Aggregate	35	DSL	11021.43	207.9264				0.032683
SACRAMEN	2032	LHD1	Aggregate	35	GAS	21995.45	652.3572				0.006647
SACRAMEN	2032	LHD1	Aggregate	35	DSL	28918.42	401.3746				0.06309
SACRAMEN	2032	LHD2	Aggregate	35	GAS	3291.259	744.6251				0.00607
SACRAMEN	2032	LHD2	Aggregate	35	DSL	10987.83	454.4624				0.071435
SACRAMEN	2032	MCY	Aggregate	35	GAS	31299.28	197.1953				0.064115
SACRAMEN	2032	MDV	Aggregate	35	GAS	707399.6	286.6606				0.003868
SACRAMEN	2032	MDV	Aggregate	35	DSL	23973.69	272.6217				0.042852
SACRAMEN	2032	MH	Aggregate	35	GAS	1864.835	1337.359				0.01456
SACRAMEN	2032	MH	Aggregate	35	DSL	774.9112	889.2657				0.13978
SACRAMEN	2032	Motor Coa	Aggregate	35	DSL	261.2124	1218.15				0.191476
SACRAMEN	2032	OBUS	Aggregate	35	GAS	1595.426	1339.918				0.014783
SACRAMEN	2032	SBUS	Aggregate	35	GAS	1735.589	644.5741				0.01155
SACRAMEN	2032	SBUS	Aggregate	35	DSL	2005.067	988.0514				0.155308
SACRAMEN	2032	T6 Ag	Aggregate	35	DSL	0.839914	1048.717				0.164844
SACRAMEN	2032	T6 CAIRP h	Aggregate	35	DSL	453.9768	674.71				0.106055
SACRAMEN	2032	T6 CAIRP s	Aggregate	35	DSL	67.31032	745.8117				0.117231
SACRAMEN	2032	T6 instate r	Aggregate	35	DSL	730.7054	857.2878				0.134754
SACRAMEN	2032	T6 instate l	Aggregate	35	DSL	5360.698	785.3409				0.123445
SACRAMEN	2032	T6 instate h	Aggregate	35	DSL	18745.61	758.4807				0.119223
SACRAMEN	2032	T6 instate s	Aggregate	35	DSL	24060.07	786.9018				0.12369
SACRAMEN	2032	T6 OOS he	Aggregate	35	DSL	252.4391	674.134				0.105964
SACRAMEN	2032	T6 OOS sm	Aggregate	35	DSL	35.52084	746.9686				0.117413
SACRAMEN	2032	T6 Public	Aggregate	35	DSL	7449.494	844.7339				0.13278
SACRAMEN	2032	T6 utility	Aggregate	35	DSL	272.9876	756.254				0.118873
SACRAMEN	2032	T6TS	Aggregate	35	GAS	7319.601	1323.958				0.010349
SACRAMEN	2032	T7 Ag	Aggregate	35	DSL	0.660843	1620.892				0.254782
SACRAMEN	2032	T7 CAIRP	Aggregate	35	DSL	2865.064	973.6624				0.153046
SACRAMEN	2032	T7 CAIRP c	Aggregate	35	DSL	501.6758	1056.268				0.166031
SACRAMEN	2032	T7 NNOOS	Aggregate	35	DSL	3492.9	937.9335				0.14743
SACRAMEN	2032	T7 NOOS	Aggregate	35	DSL	1125.786	976.0796				0.153426
SACRAMEN	2032	T7 other pr	Aggregate	35	DSL	185.7422	1060.895				0.166758
SACRAMEN	2032	T7 POAK	Aggregate	35	DSL	739.7844	1078.076				0.169459
SACRAMEN	2032	T7 Public	Aggregate	35	DSL	12372.4	1274.908				0.200398
SACRAMEN	2032	T7 Single	Aggregate	35	DSL	12600.96	1148.867				0.180586
SACRAMEN	2032	T7 single cr	Aggregate	35	DSL	1244.565	1196.262				0.188036
SACRAMEN	2032	T7 SWCV	Aggregate	35	DSL	1894.377	2850.108				0.447997
SACRAMEN	2032	T7 SWCV	Aggregate	35	NG	1336.657	2572.111				0.524342
SACRAMEN	2032	T7 tractor r	Aggregate	35	DSL	2951.105	1073.221				0.168695
SACRAMEN	2032	T7 tractor l	Aggregate	35	DSL	1026.657	1193.025				0.187527
SACRAMEN	2032	T7 utility	Aggregate	35	DSL	44.34795	1257.176				0.197611
SACRAMEN	2032	T7IS	Aggregate	35	GAS	90.44616	1520.564				0.128639
SACRAMEN	2032	UBUS	Aggregate	35	GAS	269.011	1263.494				0.019816
SACRAMEN	2032	UBUS	Aggregate	35	DSL	0	0				0
SACRAMEN	2032	UBUS	Aggregate	35	NG	720.3479	1726.066	235.3734			0.35187 0.007096
SACRAMEN	2032	All Other B	Aggregate	40	DSL	4966.44	801.4334				0.125974
SACRAMEN	2032	LDA	Aggregate	40	GAS	4477178	189.9626				0.002966
SACRAMEN	2032	LDA	Aggregate	40	DSL	53530.87	144.0904				0.022649
SACRAMEN	2032	LDT1	Aggregate	40	GAS	434385.2	223.5085				0.003481
SACRAMEN	2032	LDT1	Aggregate	40	DSL	156.7156	373.5545				0.058718
SACRAMEN	2032	LDT2	Aggregate	40	GAS	1408247	226.557				0.003328
SACRAMEN	2032	LDT2	Aggregate	40	DSL	13503.99	194.062				0.030504
SACRAMEN	2032	LHD1	Aggregate	40	GAS	6492.554	631.4759				0.006492
SACRAMEN	2032	LHD1	Aggregate	40	DSL	15875.27	390.3865				0.061363

SACRAMEN	2032 LHD2	Aggregator	40 GAS	971.5046	720.8072		0.005944	
SACRAMEN	2032 LHD2	Aggregator	40 DSL	6031.962	437.8633		0.068826	
SACRAMEN	2032 MCY	Aggregator	40 GAS	38349.41	189.759		0.06326	
SACRAMEN	2032 MDV	Aggregator	40 GAS	866740.6	277.1655		0.003705	
SACRAMEN	2032 MDV	Aggregator	40 DSL	29373.74	255.0001		0.040082	
SACRAMEN	2032 MH	Aggregator	40 GAS	2321.527	1294.583		0.013966	
SACRAMEN	2032 MH	Aggregator	40 DSL	961.9316	848.7212		0.133407	
SACRAMEN	2032 Motor Coa	Aggregator	40 DSL	241.79	1117.09		0.175591	
SACRAMEN	2032 OBUS	Aggregator	40 GAS	1986.141	1297.026		0.01418	
SACRAMEN	2032 SBUS	Aggregator	40 GAS	1171.614	623.9549		0.011078	
SACRAMEN	2032 SBUS	Aggregator	40 DSL	1469.648	923.2524		0.145122	
SACRAMEN	2032 T6 Ag	Aggregator	40 DSL	0.964929	961.7134		0.151168	
SACRAMEN	2032 T6 CAIRP h	Aggregator	40 DSL	443.9854	618.5514		0.097228	
SACRAMEN	2032 T6 CAIRP s	Aggregator	40 DSL	65.82892	683.9379		0.107506	
SACRAMEN	2032 T6 instate r	Aggregator	40 DSL	871.5904	786.4797		0.123624	
SACRAMEN	2032 T6 instate l	Aggregator	40 DSL	6394.277	720.1998		0.113205	
SACRAMEN	2032 T6 instate l	Aggregator	40 DSL	11360.37	693.9078		0.109073	
SACRAMEN	2032 T6 instate r	Aggregator	40 DSL	14581.09	721.619		0.113428	
SACRAMEN	2032 T6 OOS he	Aggregator	40 DSL	246.8833	618.0339		0.097146	
SACRAMEN	2032 T6 OOS sm	Aggregator	40 DSL	34.73908	684.9987		0.107672	
SACRAMEN	2032 T6 Public	Aggregator	40 DSL	8566.334	780.1744		0.122633	
SACRAMEN	2032 T6 utility	Aggregator	40 DSL	359.419	693.5138		0.109011	
SACRAMEN	2032 T6TS	Aggregator	40 GAS	9112.149	1281.605		0.009927	
SACRAMEN	2032 T7 Ag	Aggregator	40 DSL	0.764189	1486.419		0.233644	
SACRAMEN	2032 T7 CAIRP	Aggregator	40 DSL	2652.033	892.189		0.14024	
SACRAMEN	2032 T7 CAIRP c	Aggregator	40 DSL	643.2256	968.638		0.152256	
SACRAMEN	2032 T7 NNOOS	Aggregator	40 DSL	3233.186	859.7902		0.135147	
SACRAMEN	2032 T7 NOOS	Aggregator	40 DSL	1042.078	894.3758		0.140583	
SACRAMEN	2032 T7 other pr	Aggregator	40 DSL	230.4812	972.8811		0.152923	
SACRAMEN	2032 T7 POAK	Aggregator	40 DSL	917.9736	988.6373		0.1554	
SACRAMEN	2032 T7 Public	Aggregator	40 DSL	12926.31	1180.861		0.185615	
SACRAMEN	2032 T7 Single	Aggregator	40 DSL	8070.119	1053.555		0.165604	
SACRAMEN	2032 T7 single cr	Aggregator	40 DSL	1595.724	1097.433		0.172501	
SACRAMEN	2032 T7 SWCV	Aggregator	40 DSL	2076.385	2645.677		0.415864	
SACRAMEN	2032 T7 SWCV	Aggregator	40 NG	1465.08	2471.295		0.50379	
SACRAMEN	2032 T7 tractor r	Aggregator	40 DSL	3695.922	981.9874		0.154355	
SACRAMEN	2032 T7 tractor r	Aggregator	40 DSL	1316.332	1094.175		0.171989	
SACRAMEN	2032 T7 utility	Aggregator	40 DSL	61.02344	1152.878		0.181216	
SACRAMEN	2032 T7IS	Aggregator	40 GAS	78.84407	1469.724		0.123122	
SACRAMEN	2032 UBUS	Aggregator	40 GAS	354.3347	1229.09		0.019189	
SACRAMEN	2032 UBUS	Aggregator	40 DSL	0	0		0	
SACRAMEN	2032 UBUS	Aggregator	40 NG	959.7122	1649.108	221.3856	0.336181	0.005822
SACRAMEN	2032 All Other B	Aggregator	45 DSL	3147.842	760.2704		0.119504	
SACRAMEN	2032 LDA	Aggregator	45 GAS	1734838	190.5972		0.002885	
SACRAMEN	2032 LDA	Aggregator	45 DSL	20742.39	139.1802		0.021877	
SACRAMEN	2032 LDT1	Aggregator	45 GAS	168317.6	224.2514		0.003391	
SACRAMEN	2032 LDT1	Aggregator	45 DSL	60.72489	360.17		0.056614	
SACRAMEN	2032 LDT2	Aggregator	45 GAS	545674	227.3072		0.00324	
SACRAMEN	2032 LDT2	Aggregator	45 DSL	5232.589	187.1087		0.029411	
SACRAMEN	2032 LHD1	Aggregator	45 GAS	7992.905	633.6762		0.006226	
SACRAMEN	2032 LHD1	Aggregator	45 DSL	17134.64	380.7913		0.059855	
SACRAMEN	2032 LHD2	Aggregator	45 GAS	1196.008	723.3377		0.005692	
SACRAMEN	2032 LHD2	Aggregator	45 DSL	6510.471	420.8942		0.066159	
SACRAMEN	2032 MCY	Aggregator	45 GAS	14859.81	189.3494		0.06308	
SACRAMEN	2032 MDV	Aggregator	45 GAS	335848.7	278.0902		0.00361	
SACRAMEN	2032 MDV	Aggregator	45 DSL	11381.87	245.4007		0.038574	
SACRAMEN	2032 MH	Aggregator	45 GAS	2117.074	1299.122		0.013518	
SACRAMEN	2032 MH	Aggregator	45 DSL	787.6945	818.6314		0.128677	
SACRAMEN	2032 Motor Coa	Aggregator	45 DSL	322.0975	1059.715		0.166572	
SACRAMEN	2032 OBUS	Aggregator	45 GAS	1811.225	1301.525		0.013724	
SACRAMEN	2032 SBUS	Aggregator	45 GAS	562.1124	626.1389		0.010782	
SACRAMEN	2032 SBUS	Aggregator	45 DSL	1236.109	881.6916		0.13859	
SACRAMEN	2032 T6 Ag	Aggregator	45 DSL	1.188907	912.3181		0.143404	
SACRAMEN	2032 T6 CAIRP h	Aggregator	45 DSL	567.1934	586.6075		0.092207	
SACRAMEN	2032 T6 CAIRP s	Aggregator	45 DSL	84.09674	648.8097		0.101984	
SACRAMEN	2032 T6 instate r	Aggregator	45 DSL	1049.107	746.2075		0.117293	
SACRAMEN	2032 T6 instate r	Aggregator	45 DSL	7696.597	683.2131		0.107392	
SACRAMEN	2032 T6 instate l	Aggregator	45 DSL	8395.215	656.7042		0.103225	
SACRAMEN	2032 T6 instate r	Aggregator	45 DSL	10775.3	684.5554		0.107603	
SACRAMEN	2032 T6 OOS he	Aggregator	45 DSL	315.3945	586.1267		0.092131	
SACRAMEN	2032 T6 OOS sm	Aggregator	45 DSL	44.37933	649.816		0.102142	
SACRAMEN	2032 T6 Public	Aggregator	45 DSL	7932.803	742.0821		0.116645	
SACRAMEN	2032 T6 utility	Aggregator	45 DSL	369.7162	657.8938		0.103412	
SACRAMEN	2032 T6TS	Aggregator	45 GAS	8309.657	1286.09		0.009608	
SACRAMEN	2032 T7 Ag	Aggregator	45 DSL	0.95743	1410.074		0.221644	
SACRAMEN	2032 T7 CAIRP	Aggregator	45 DSL	3532.872	845.7038		0.132933	
SACRAMEN	2032 T7 CAIRP c	Aggregator	45 DSL	781.5681	918.8871		0.144436	
SACRAMEN	2032 T7 NNOOS	Aggregator	45 DSL	4307.049	815.3163		0.128156	
SACRAMEN	2032 T7 NOOS	Aggregator	45 DSL	1388.192	847.7499		0.133254	
SACRAMEN	2032 T7 other pr	Aggregator	45 DSL	241.2179	922.9123		0.145069	
SACRAMEN	2032 T7 POAK	Aggregator	45 DSL	960.7365	937.8592		0.147418	
SACRAMEN	2032 T7 Public	Aggregator	45 DSL	13561.29	1124.313		0.176726	
SACRAMEN	2032 T7 Single	Aggregator	45 DSL	6467.088	999.4423		0.157098	
SACRAMEN	2032 T7 single cr	Aggregator	45 DSL	1938.927	1041.236		0.163668	
SACRAMEN	2032 T7 SWCV	Aggregator	45 DSL	2297.569	2522.115		0.396441	
SACRAMEN	2032 T7 SWCV	Aggregator	45 NG	1621.145	2386.596		0.486523	
SACRAMEN	2032 T7 tractor	Aggregator	45 DSL	4356.026	929.4662		0.146099	
SACRAMEN	2032 T7 tractor r	Aggregator	45 DSL	1599.444	1038.022		0.163163	
SACRAMEN	2032 T7 utility	Aggregator	45 DSL	61.18586	1093.664		0.171909	
SACRAMEN	2032 T7IS	Aggregator	45 GAS	83.42544	1471.267		0.120455	
SACRAMEN	2032 UBUS	Aggregator	45 GAS	298.081	1230.983		0.0185	
SACRAMEN	2032 UBUS	Aggregator	45 DSL	0	0		0	
SACRAMEN	2032 UBUS	Aggregator	45 NG	803.674	1581.225	238.1622	0.322343	0.008433
SACRAMEN	2032 All Other B	Aggregator	50 DSL	929.3237	750.4478		0.11796	

SACRAMEN	2032 LDA	Aggregator	50 GAS	1739129	196.5981		0.002841
SACRAMEN	2032 LDA	Aggregator	50 DSL	20793.7	139.5345		0.021933
SACRAMEN	2032 LDT1	Aggregator	50 GAS	168734	231.2287		0.003345
SACRAMEN	2032 LDT1	Aggregator	50 DSL	60.8751	360.7683		0.056708
SACRAMEN	2032 LDT2	Aggregator	50 GAS	547023.7	234.336		0.003194
SACRAMEN	2032 LDT2	Aggregator	50 DSL	5245.532	187.4195		0.02946
SACRAMEN	2032 LHD1	Aggregator	50 GAS	59018.5	652.2553		0.005973
SACRAMEN	2032 LHD1	Aggregator	50 DSL	66162.26	399.2088		0.06275
SACRAMEN	2032 LHD2	Aggregator	50 GAS	8831.154	744.5662		0.005449
SACRAMEN	2032 LHD2	Aggregator	50 DSL	25138.99	436.3964		0.068595
SACRAMEN	2032 MCY	Aggregator	50 GAS	14896.56	194.1273		0.063317
SACRAMEN	2032 MDV	Aggregator	50 GAS	336679.4	286.6159		0.003562
SACRAMEN	2032 MDV	Aggregator	50 DSL	11410.03	246.6304		0.038767
SACRAMEN	2032 MH	Aggregator	50 GAS	2060.348	1337.236		0.013496
SACRAMEN	2032 MH	Aggregator	50 DSL	881.5582	798.9965		0.125591
SACRAMEN	2032 Motor Coa	Aggregator	50 DSL	474.0911	1046.023		0.16442
SACRAMEN	2032 OBUS	Aggregator	50 GAS	1762.694	1339.648		0.013702
SACRAMEN	2032 SBUS	Aggregator	50 GAS	281.523	644.5072		0.010595
SACRAMEN	2032 SBUS	Aggregator	50 DSL	2109.917	863.0039		0.135652
SACRAMEN	2032 T6 Ag	Aggregator	50 DSL	1.57525	900.5311		0.141551
SACRAMEN	2032 T6 CAIRP h	Aggregator	50 DSL	758.4146	578.8568		0.090988
SACRAMEN	2032 T6 CAIRP s	Aggregator	50 DSL	112.4488	640.4271		0.100666
SACRAMEN	2032 T6 instate r	Aggregator	50 DSL	1175.074	736.4694		0.115763
SACRAMEN	2032 T6 instate r	Aggregator	50 DSL	8620.736	674.3807		0.106003
SACRAMEN	2032 T6 instate l	Aggregator	50 DSL	17338.63	646.6765		0.101649
SACRAMEN	2032 T6 instate :	Aggregator	50 DSL	22254.21	675.711		0.106212
SACRAMEN	2032 T6 OOS he	Aggregator	50 DSL	421.7253	578.3923		0.090915
SACRAMEN	2032 T6 OOS sm	Aggregator	50 DSL	59.34118	641.4205		0.100822
SACRAMEN	2032 T6 Public	Aggregator	50 DSL	5707.659	730.3679		0.114804
SACRAMEN	2032 T6 utility	Aggregator	50 DSL	342.3146	649.3939		0.102076
SACRAMEN	2032 T6TS	Aggregator	50 GAS	8087.004	1323.81		0.009593
SACRAMEN	2032 T7 Ag	Aggregator	50 DSL	1.251397	1391.856		0.21878
SACRAMEN	2032 T7 CAIRP	Aggregator	50 DSL	5199.987	834.1251		0.131113
SACRAMEN	2032 T7 CAIRP c	Aggregator	50 DSL	785.4087	907.0151		0.14257
SACRAMEN	2032 T7 NNOOS	Aggregator	50 DSL	6339.487	804.4729		0.126452
SACRAMEN	2032 T7 NOOS	Aggregator	50 DSL	2043.261	836.1167		0.131426
SACRAMEN	2032 T7 other pr	Aggregator	50 DSL	245.1618	910.9883		0.143195
SACRAMEN	2032 T7 POAK	Aggregator	50 DSL	976.4445	925.7421		0.145514
SACRAMEN	2032 T7 Public	Aggregator	50 DSL	8880.208	1105.005		0.173691
SACRAMEN	2032 T7 Single	Aggregator	50 DSL	15287.74	986.5296		0.155069
SACRAMEN	2032 T7 single cr	Aggregator	50 DSL	1948.454	1027.67		0.161535
SACRAMEN	2032 T7 SWCV	Aggregator	50 DSL	2126.151	2478.969		0.389659
SACRAMEN	2032 T7 SWCV	Aggregator	50 NG	1500.194	2314.124		0.471749
SACRAMEN	2032 T7 tractor	Aggregator	50 DSL	6617.946	915.3999		0.143888
SACRAMEN	2032 T7 tractor r	Aggregator	50 DSL	1607.303	1024.566		0.161047
SACRAMEN	2032 T7 utility	Aggregator	50 DSL	58.61003	1079.534		0.169688
SACRAMEN	2032 T7IS	Aggregator	50 GAS	87.28664	1510.273		0.118815
SACRAMEN	2032 UBUS	Aggregator	50 GAS	290.7516	1247.956		0.017953
SACRAMEN	2032 UBUS	Aggregator	50 DSL	0	0		0
SACRAMEN	2032 UBUS	Aggregator	50 NG	756.3513	1520.503	259.8168	0.309964 0.010447
SACRAMEN	2032 All Other B	Aggregator	55 DSL	230.0771	771.9656		0.121342
SACRAMEN	2032 LDA	Aggregator	55 GAS	3164925	204.6361		0.002841
SACRAMEN	2032 LDA	Aggregator	55 DSL	37841.07	146.0119		0.022951
SACRAMEN	2032 LDT1	Aggregator	55 GAS	307067.7	240.6781		0.003355
SACRAMEN	2032 LDT1	Aggregator	55 DSL	110.7825	377.2126		0.059293
SACRAMEN	2032 LDT2	Aggregator	55 GAS	995492	243.9079		0.0032
SACRAMEN	2032 LDT2	Aggregator	55 DSL	9545.994	195.9624		0.030803
SACRAMEN	2032 LHD1	Aggregator	55 GAS	16232.87	679.0075		0.006256
SACRAMEN	2032 LHD1	Aggregator	55 DSL	39843.52	417.159		0.065572
SACRAMEN	2032 LHD2	Aggregator	55 GAS	2428.984	775.1342		0.005728
SACRAMEN	2032 LHD2	Aggregator	55 DSL	15138.93	451.6913		0.071
SACRAMEN	2032 MCY	Aggregator	55 GAS	27109.27	202.2453		0.064239
SACRAMEN	2032 MDV	Aggregator	55 GAS	612700.5	298.3315		0.003574
SACRAMEN	2032 MDV	Aggregator	55 DSL	20764.35	260.2813		0.040913
SACRAMEN	2032 MH	Aggregator	55 GAS	2694.748	1392.143		0.013632
SACRAMEN	2032 MH	Aggregator	55 DSL	1291.844	789.8165		0.124148
SACRAMEN	2032 Motor Coa	Aggregator	55 DSL	1138.155	1076.016		0.169135
SACRAMEN	2032 OBUS	Aggregator	55 GAS	2305.443	1394.595		0.013841
SACRAMEN	2032 SBUS	Aggregator	55 GAS	419.0289	670.9646		0.010883
SACRAMEN	2032 SBUS	Aggregator	55 DSL	5345.138	866.9464		0.136272
SACRAMEN	2032 T6 Ag	Aggregator	55 DSL	4.299036	926.3522		0.14561
SACRAMEN	2032 T6 CAIRP h	Aggregator	55 DSL	1783.08	595.4545		0.093597
SACRAMEN	2032 T6 CAIRP s	Aggregator	55 DSL	264.3741	658.7902		0.103553
SACRAMEN	2032 T6 instate r	Aggregator	55 DSL	1430.316	757.2641		0.119031
SACRAMEN	2032 T6 instate r	Aggregator	55 DSL	10493.27	693.7023		0.10904
SACRAMEN	2032 T6 instate l	Aggregator	55 DSL	43327.8	665.2188		0.104563
SACRAMEN	2032 T6 instate :	Aggregator	55 DSL	55611.44	695.0858		0.109258
SACRAMEN	2032 T6 OOS he	Aggregator	55 DSL	991.5027	594.9766		0.093522
SACRAMEN	2032 T6 OOS sm	Aggregator	55 DSL	139.5148	659.8121		0.103713
SACRAMEN	2032 T6 Public	Aggregator	55 DSL	6720.176	744.9726		0.117099
SACRAMEN	2032 T6 utility	Aggregator	55 DSL	532.4547	668.0141		0.105003
SACRAMEN	2032 T6TS	Aggregator	55 GAS	10577.06	1378.155		0.00969
SACRAMEN	2032 T7 Ag	Aggregator	55 DSL	3.583431	1431.765		0.225054
SACRAMEN	2032 T7 CAIRP	Aggregator	55 DSL	12483.66	858.0421		0.134872
SACRAMEN	2032 T7 CAIRP c	Aggregator	55 DSL	958.2673	933.0222		0.146658
SACRAMEN	2032 T7 NNOOS	Aggregator	55 DSL	15219.27	827.5397		0.130078
SACRAMEN	2032 T7 NOOS	Aggregator	55 DSL	4905.274	860.0909		0.135194
SACRAMEN	2032 T7 other pr	Aggregator	55 DSL	214.974	937.1093		0.147301
SACRAMEN	2032 T7 POAK	Aggregator	55 DSL	856.2106	952.2861		0.149686
SACRAMEN	2032 T7 Public	Aggregator	55 DSL	8861.391	1122.769		0.176484
SACRAMEN	2032 T7 Single	Aggregator	55 DSL	39352.95	1014.817		0.159515
SACRAMEN	2032 T7 single cr	Aggregator	55 DSL	2377.285	1056.732		0.166103
SACRAMEN	2032 T7 SWCV	Aggregator	55 DSL	1693.604	2515.963		0.395474
SACRAMEN	2032 T7 SWCV	Aggregator	55 NG	1194.993	2251.251		0.458932

SACRAMEN	2032 T7 tractor	Aggregator	55 DSL	14857.56	941.6474		0.148014
SACRAMEN	2032 T7 tractor r	Aggregator	55 DSL	1961.051	1053.803		0.165643
SACRAMEN	2032 T7 utility	Aggregator	55 DSL	91.54446	1110.488		0.174553
SACRAMEN	2032 T7IS	Aggregator	55 GAS	128.1303	1568.2		0.118493
SACRAMEN	2032 UBUS	Aggregator	55 GAS	472.8345	1320.032		0.018758
SACRAMEN	2032 UBUS	Aggregator	55 DSL	0	0		0
SACRAMEN	2032 UBUS	Aggregator	55 NG	1276.868	1465.572	258.3878	0.298767 0.009877
SACRAMEN	2032 All Other B	Aggregator	60 DSL	16.90215	824.8237		0.129651
SACRAMEN	2032 LDA	Aggregator	60 GAS	2443281	211.4077		0.002926
SACRAMEN	2032 LDA	Aggregator	60 DSL	29212.81	158.2944		0.024882
SACRAMEN	2032 LDT1	Aggregator	60 GAS	237052.3	248.9031		0.003469
SACRAMEN	2032 LDT1	Aggregator	60 DSL	85.52268	408.5985		0.064226
SACRAMEN	2032 LDT2	Aggregator	60 GAS	768506.9	252.3722		0.003303
SACRAMEN	2032 LDT2	Aggregator	60 DSL	7369.383	212.2674		0.033365
SACRAMEN	2032 MCY	Aggregator	60 GAS	20928	212.6672		0.066625
SACRAMEN	2032 MDV	Aggregator	60 GAS	472996.8	308.9662		0.003699
SACRAMEN	2032 MDV	Aggregator	60 DSL	16029.81	281.8322		0.0443
SACRAMEN	2032 MH	Aggregator	60 GAS	3109.616	1448.583		0.013865
SACRAMEN	2032 MH	Aggregator	60 DSL	1552.367	791.0913		0.124349
SACRAMEN	2032 Motor Coa	Aggregator	60 DSL	4153.178	1149.693		0.180716
SACRAMEN	2032 OBUS	Aggregator	60 GAS	2660.376	1451.085		0.014077
SACRAMEN	2032 SBUS	Aggregator	60 GAS	233.2093	698.1644		0.011038
SACRAMEN	2032 SBUS	Aggregator	60 DSL	5273.741	894.7374		0.14064
SACRAMEN	2032 T6 Ag	Aggregator	60 DSL	20.10825	989.7815		0.15558
SACRAMEN	2032 T6 CAIRP h	Aggregator	60 DSL	6197.327	636.2265		0.100006
SACRAMEN	2032 T6 CAIRP s	Aggregator	60 DSL	918.8665	703.899		0.110643
SACRAMEN	2032 T6 instate r	Aggregator	60 DSL	4544.011	808.5814		0.127098
SACRAMEN	2032 T6 instate r	Aggregator	60 DSL	33336.37	741.179		0.116503
SACRAMEN	2032 T6 instate l	Aggregator	60 DSL	29425.17	710.7678		0.111723
SACRAMEN	2032 T6 instate :	Aggregator	60 DSL	37767.35	742.6798		0.116739
SACRAMEN	2032 T6 OOS he:	Aggregator	60 DSL	3446.097	635.7159		0.099926
SACRAMEN	2032 T6 OOS sm	Aggregator	60 DSL	484.902	704.9908		0.110815
SACRAMEN	2032 T6 Public	Aggregator	60 DSL	7718.996	786.0912		0.123563
SACRAMEN	2032 T6 utility	Aggregator	60 DSL	359.4979	713.7544		0.112192
SACRAMEN	2032 T6TS	Aggregator	60 GAS	12205.45	1434.018		0.009855
SACRAMEN	2032 T7 Ag	Aggregator	60 DSL	18.26968	1529.801		0.240463
SACRAMEN	2032 T7 CAIRP	Aggregator	60 DSL	45553.43	916.7941		0.144107
SACRAMEN	2032 T7 CAIRP c	Aggregator	60 DSL	3517.269	996.9082		0.1567
SACRAMEN	2032 T7 NNOOS	Aggregator	60 DSL	55535.78	884.2031		0.138984
SACRAMEN	2032 T7 NOOS	Aggregator	60 DSL	17899.57	918.9831		0.144451
SACRAMEN	2032 T7 other pr	Aggregator	60 DSL	141.8892	1001.275		0.157387
SACRAMEN	2032 T7 POAK	Aggregator	60 DSL	565.1242	1017.491		0.159935
SACRAMEN	2032 T7 Public	Aggregator	60 DSL	10390.06	1178.112		0.185183
SACRAMEN	2032 T7 Single	Aggregator	60 DSL	28374.73	1084.303		0.170437
SACRAMEN	2032 T7 single cr	Aggregator	60 DSL	8725.697	1128.388		0.177367
SACRAMEN	2032 T7 SWCV	Aggregator	60 DSL	2449.23	2631.956		0.413707
SACRAMEN	2032 T7 SWCV	Aggregator	60 NG	1728.157	2222.813		0.453135
SACRAMEN	2032 T7 tractor	Aggregator	60 DSL	46777.29	1006.124		0.158149
SACRAMEN	2032 T7 tractor r	Aggregator	60 DSL	7197.932	1125.735		0.17695
SACRAMEN	2032 T7 utility	Aggregator	60 DSL	68.85102	1186.526		0.186505
SACRAMEN	2032 T7IS	Aggregator	60 GAS	31.62278	1627.892		0.121582
SACRAMEN	2032 UBUS	Aggregator	60 GAS	711.0682	1377.398		0.019239
SACRAMEN	2032 UBUS	Aggregator	60 DSL	0	0		0
SACRAMEN	2032 UBUS	Aggregator	60 NG	1932.717	1415.425	294.9698	0.288544 0.015616
SACRAMEN	2032 All Other B	Aggregator	65 DSL	0.008048	909.0222		0.142886
SACRAMEN	2032 LDA	Aggregator	65 GAS	358181.9	219.5374		0.003009
SACRAMEN	2032 LDA	Aggregator	65 DSL	4282.561	177.955		0.027972
SACRAMEN	2032 LDT1	Aggregator	65 GAS	34751.56	258.1704		0.003584
SACRAMEN	2032 LDT1	Aggregator	65 DSL	12.53751	458.9481		0.07214
SACRAMEN	2032 LDT2	Aggregator	65 GAS	112662.1	261.6126		0.003407
SACRAMEN	2032 LDT2	Aggregator	65 DSL	1080.342	238.424		0.037477
SACRAMEN	2032 MCY	Aggregator	65 GAS	3068.018	223.5485		0.068382
SACRAMEN	2032 MDV	Aggregator	65 GAS	69340.73	319.9714		0.003825
SACRAMEN	2032 MDV	Aggregator	65 DSL	2349.949	316.4581		0.049743
SACRAMEN	2032 MH	Aggregator	65 GAS	485.9169	1492.823		0.014156
SACRAMEN	2032 MH	Aggregator	65 DSL	244.2984	802.8209		0.126192
SACRAMEN	2032 Motor Coa	Aggregator	65 DSL	7609.213	1267.054		0.199163
SACRAMEN	2032 OBUS	Aggregator	65 GAS	415.7174	1495.368		0.014372
SACRAMEN	2032 SBUS	Aggregator	65 DSL	1980.533	943.0933		0.148241
SACRAMEN	2032 T6 Ag	Aggregator	65 DSL	14.51472	1090.819		0.171462
SACRAMEN	2032 T6 CAIRP h	Aggregator	65 DSL	11954.16	701.1729		0.110215
SACRAMEN	2032 T6 CAIRP s	Aggregator	65 DSL	1772.422	775.7534		0.121938
SACRAMEN	2032 T6 instate r	Aggregator	65 DSL	2667.248	890.3546		0.139951
SACRAMEN	2032 T6 instate r	Aggregator	65 DSL	19567.82	816.8084		0.128391
SACRAMEN	2032 T6 instate l	Aggregator	65 DSL	11451.71	783.3234		0.123128
SACRAMEN	2032 T6 instate :	Aggregator	65 DSL	14698.33	818.493		0.128656
SACRAMEN	2032 T6 OOS he:	Aggregator	65 DSL	6647.253	700.6102		0.110126
SACRAMEN	2032 T6 OOS sm	Aggregator	65 DSL	935.3384	776.9567		0.122127
SACRAMEN	2032 T6 Public	Aggregator	65 DSL	3283.956	852.6295		0.134021
SACRAMEN	2032 T6 utility	Aggregator	65 DSL	2.722785	786.6149		0.123645
SACRAMEN	2032 T6TS	Aggregator	65 GAS	1907.256	1477.807		0.010062
SACRAMEN	2032 T7 Ag	Aggregator	65 DSL	11.61813	1685.964		0.26501
SACRAMEN	2032 T7 CAIRP	Aggregator	65 DSL	83460.36	1010.381		0.158818
SACRAMEN	2032 T7 CAIRP c	Aggregator	65 DSL	1724.437	1098.673		0.172696
SACRAMEN	2032 T7 NNOOS	Aggregator	65 DSL	101749.5	974.4631		0.153172
SACRAMEN	2032 T7 NOOS	Aggregator	65 DSL	32794.56	1012.793		0.159197
SACRAMEN	2032 T7 other pr	Aggregator	65 DSL	55.81174	1103.486		0.173453
SACRAMEN	2032 T7 POAK	Aggregator	65 DSL	222.2902	1121.357		0.176262
SACRAMEN	2032 T7 Public	Aggregator	65 DSL	4644.592	1269.128		0.199489
SACRAMEN	2032 T7 Single	Aggregator	65 DSL	9073.009	1194.989		0.187836
SACRAMEN	2032 T7 single cr	Aggregator	65 DSL	4278.011	1242.568		0.195314
SACRAMEN	2032 T7 SWCV	Aggregator	65 DSL	468.3408	2822.006		0.44358
SACRAMEN	2032 T7 SWCV	Aggregator	65 NG	330.4574	2222.813		0.453135
SACRAMEN	2032 T7 tractor	Aggregator	65 DSL	32339.13	1108.83		0.174293

SACRAMEN	2032 T7 tractor r	Aggregator	65 DSL	3528.983	1240.341		0.194964	
SACRAMEN	2032 T7 utility	Aggregator	65 DSL	0.668005	1307.647		0.205544	
SACRAMEN	2032 T7IS	Aggregator	65 GAS	16.94916	1674.502		0.126394	
SACRAMEN	2032 UBUS	Aggregator	65 GAS	107.0143	1419.464		0.019703	
SACRAMEN	2032 UBUS	Aggregator	65 DSL	0	0		0	
SACRAMEN	2032 UBUS	Aggregator	65 NG	290.8699	1369.294	526.9623	0.279139	0.061138
SACRAMEN	2032 All Other B	Aggregator	70 DSL	0	0		0	
SACRAMEN	2032 LDA	Aggregator	70 GAS	94764.54	217.5693		0.003142	
SACRAMEN	2032 LDA	Aggregator	70 DSL	1133.041	192.1632		0.030205	
SACRAMEN	2032 LDT1	Aggregator	70 GAS	9194.254	256.5584		0.003757	
SACRAMEN	2032 LDT1	Aggregator	70 DSL	3.317063	495.1611		0.077832	
SACRAMEN	2032 LDT2	Aggregator	70 GAS	29807.13	260.3318		0.003566	
SACRAMEN	2032 LDT2	Aggregator	70 DSL	285.8272	257.2367		0.040434	
SACRAMEN	2032 MCY	Aggregator	70 GAS	811.7086	230.1011		0.071446	
SACRAMEN	2032 MDV	Aggregator	70 GAS	18345.54	319.1373		0.004012	
SACRAMEN	2032 MDV	Aggregator	70 DSL	621.7284	340.6724		0.053549	
SACRAMEN	2032 Motor Coa	Aggregator	70 DSL	93.51325	1267.054		0.199163	
SACRAMEN	2032 SBUS	Aggregator	70 DSL	172.8674	943.0933		0.148241	
SACRAMEN	2032 T6 Ag	Aggregator	70 DSL	0.067625	1090.819		0.171462	
SACRAMEN	2032 T6 CAIRP h	Aggregator	70 DSL	143.1814	701.1729		0.110215	
SACRAMEN	2032 T6 CAIRP s	Aggregator	70 DSL	21.22924	775.7534		0.121938	
SACRAMEN	2032 T6 instate r	Aggregator	70 DSL	384.7618	890.3546		0.139951	
SACRAMEN	2032 T6 instate l	Aggregator	70 DSL	2822.741	816.8084		0.128391	
SACRAMEN	2032 T6 instate l	Aggregator	70 DSL	977.1938	783.3234		0.123128	
SACRAMEN	2032 T6 instate :	Aggregator	70 DSL	1254.233	818.493		0.128656	
SACRAMEN	2032 T6 OOS he:	Aggregator	70 DSL	79.61769	700.6102		0.110126	
SACRAMEN	2032 T6 OOS sm	Aggregator	70 DSL	11.20305	776.9567		0.122127	
SACRAMEN	2032 T6 Public	Aggregator	70 DSL	1391.268	852.6295		0.134021	
SACRAMEN	2032 T6 utility	Aggregator	70 DSL	0.000481	786.6149		0.123645	
SACRAMEN	2032 T7 Ag	Aggregator	70 DSL	0.073676	1685.964		0.26501	
SACRAMEN	2032 T7 CAIRP	Aggregator	70 DSL	1025.684	1010.381		0.158818	
SACRAMEN	2032 T7 CAIRP c	Aggregator	70 DSL	385.0145	1098.673		0.172696	
SACRAMEN	2032 T7 NNOOS	Aggregator	70 DSL	1250.448	974.4631		0.153172	
SACRAMEN	2032 T7 NOOS	Aggregator	70 DSL	403.0279	1012.793		0.159197	
SACRAMEN	2032 T7 other pr	Aggregator	70 DSL	1.275763	1103.486		0.173453	
SACRAMEN	2032 T7 POAK	Aggregator	70 DSL	5.08118	1121.357		0.176262	
SACRAMEN	2032 T7 Public	Aggregator	70 DSL	2534.553	1269.128		0.199489	
SACRAMEN	2032 T7 Single	Aggregator	70 DSL	792.0064	1194.989		0.187836	
SACRAMEN	2032 T7 single cr	Aggregator	70 DSL	955.1502	1242.568		0.195314	
SACRAMEN	2032 T7 SWCV	Aggregator	70 DSL	0	0		0	
SACRAMEN	2032 T7 SWCV	Aggregator	70 NG	0	0		0	
SACRAMEN	2032 T7 tractor	Aggregator	70 DSL	9767.947	1108.83		0.174293	
SACRAMEN	2032 T7 tractor r	Aggregator	70 DSL	787.9148	1240.341		0.194964	
SACRAMEN	2032 T7 utility	Aggregator	70 DSL	0.001174	1307.647		0.205544	
SACRAMEN	2032 UBUS	Aggregator	70 GAS	0	0		0	
SACRAMEN	2032 UBUS	Aggregator	70 DSL	0	0		0	
SACRAMEN	2032 UBUS	Aggregator	70 NG	0	0	353.019	0	0.026577
SACRAMEN	2032 All Other B	Aggregator	75 DSL	0	0		0	
SACRAMEN	2032 Motor Coa	Aggregator	75 DSL	0.029629	1267.054		0.199163	
SACRAMEN	2032 SBUS	Aggregator	75 DSL	9.68558	943.0933		0.148241	
SACRAMEN	2032 T6 Ag	Aggregator	75 DSL	0.000573	1090.819		0.171462	
SACRAMEN	2032 T6 CAIRP h	Aggregator	75 DSL	0.053592	701.1729		0.110215	
SACRAMEN	2032 T6 CAIRP s	Aggregator	75 DSL	0.007946	775.7534		0.121938	
SACRAMEN	2032 T6 instate r	Aggregator	75 DSL	233.055	890.3546		0.139951	
SACRAMEN	2032 T6 instate l	Aggregator	75 DSL	1709.769	816.8084		0.128391	
SACRAMEN	2032 T6 instate l	Aggregator	75 DSL	29.12812	783.3234		0.123128	
SACRAMEN	2032 T6 instate :	Aggregator	75 DSL	37.38608	818.493		0.128656	
SACRAMEN	2032 T6 OOS he:	Aggregator	75 DSL	0.029801	700.6102		0.110126	
SACRAMEN	2032 T6 OOS sm	Aggregator	75 DSL	0.004193	776.9567		0.122127	
SACRAMEN	2032 T6 Public	Aggregator	75 DSL	338.6532	852.6295		0.134021	
SACRAMEN	2032 T6 utility	Aggregator	75 DSL	0	0		0	
SACRAMEN	2032 T7 Ag	Aggregator	75 DSL	0.001296	1685.964		0.26501	
SACRAMEN	2032 T7 CAIRP	Aggregator	75 DSL	0.324982	1010.381		0.158818	
SACRAMEN	2032 T7 CAIRP c	Aggregator	75 DSL	305.4789	1098.673		0.172696	
SACRAMEN	2032 T7 NNOOS	Aggregator	75 DSL	0.396197	974.4631		0.153172	
SACRAMEN	2032 T7 NOOS	Aggregator	75 DSL	0.127697	1012.793		0.159197	
SACRAMEN	2032 T7 other pr	Aggregator	75 DSL	0	0		0	
SACRAMEN	2032 T7 POAK	Aggregator	75 DSL	0	0		0	
SACRAMEN	2032 T7 Public	Aggregator	75 DSL	740.382	1269.128		0.199489	
SACRAMEN	2032 T7 Single	Aggregator	75 DSL	29.31285	1194.989		0.187836	
SACRAMEN	2032 T7 single cr	Aggregator	75 DSL	757.837	1242.568		0.195314	
SACRAMEN	2032 T7 SWCV	Aggregator	75 DSL	0	0		0	
SACRAMEN	2032 T7 SWCV	Aggregator	75 NG	0	0		0	
SACRAMEN	2032 T7 tractor	Aggregator	75 DSL	497.7481	1108.83		0.174293	
SACRAMEN	2032 T7 tractor r	Aggregator	75 DSL	625.1488	1240.341		0.194964	
SACRAMEN	2032 T7 utility	Aggregator	75 DSL	0	0		0	
SACRAMEN	2032 UBUS	Aggregator	75 GAS	0	0		0	
SACRAMEN	2032 UBUS	Aggregator	75 DSL	0	0		0	
SACRAMEN	2032 UBUS	Aggregator	75 NG	0	0	1041.586	0	0.163723
SACRAMEN	2032 All Other B	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 Motor Coa	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 SBUS	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 T6 Ag	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 T6 CAIRP h	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 T6 CAIRP s	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 T6 instate r	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 T6 instate l	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 T6 instate l	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 T6 instate :	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 T6 OOS he:	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 T6 OOS sm	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 T6 Public	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 T6 utility	Aggregator	80 DSL	0	0		0	
SACRAMEN	2032 T7 Ag	Aggregator	80 DSL	0	0		0	

SACRAMEN	2032 T7 CAIRP	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 T7 CAIRP c	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 T7 NNOOS	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 T7 NOOS	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 T7 other pr	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 T7 POAK	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 T7 Public	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 T7 Single	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 T7 single cr	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 T7 SWCV	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 T7 SWCV	Aggregate	80 NG	0	0	0
SACRAMEN	2032 T7 tractor	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 T7 tractor r	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 T7 utility	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 UBUS	Aggregate	80 GAS	0	0	0
SACRAMEN	2032 UBUS	Aggregate	80 DSL	0	0	0
SACRAMEN	2032 UBUS	Aggregate	80 NG	0	0	0
SACRAMEN	2032 All Other B	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 Motor Coa	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 SBUS	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T6 Ag	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T6 CAIRP h	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T6 CAIRP s	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T6 instate r	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T6 instate r	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T6 instate l	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T6 instate l	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T6 OOS he	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T6 OOS sm	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T6 Public	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T6 utility	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 Ag	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 CAIRP	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 CAIRP c	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 NNOOS	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 NOOS	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 other pr	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 POAK	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 Public	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 Single	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 single cr	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 SWCV	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 SWCV	Aggregate	85 NG	0	0	0
SACRAMEN	2032 T7 tractor	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 tractor r	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 T7 utility	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 UBUS	Aggregate	85 GAS	0	0	0
SACRAMEN	2032 UBUS	Aggregate	85 DSL	0	0	0
SACRAMEN	2032 UBUS	Aggregate	85 NG	0	0	0
SACRAMEN	2032 All Other B	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 Motor Coa	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 SBUS	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T6 Ag	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T6 CAIRP h	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T6 CAIRP s	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T6 instate r	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T6 instate r	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T6 instate l	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T6 instate l	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T6 OOS he	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T6 OOS sm	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T6 Public	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T6 utility	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 Ag	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 CAIRP	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 CAIRP c	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 NNOOS	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 NOOS	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 other pr	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 POAK	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 Public	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 Single	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 single cr	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 SWCV	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 SWCV	Aggregate	90 NG	0	0	0
SACRAMEN	2032 T7 tractor	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 tractor r	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 T7 utility	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 UBUS	Aggregate	90 GAS	0	0	0
SACRAMEN	2032 UBUS	Aggregate	90 DSL	0	0	0
SACRAMEN	2032 UBUS	Aggregate	90 NG	0	0	0

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SACRAMENTO

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	Calendar Y	Vehicle Cal	Model Yea	Speed	Fuel	VMT	CO2_RUNE	CO2 Avera	CH4_RUNE	CH4 Avera	N2O_RUNE	N2O Average (g/mi)
SACRAMEN	2020	All Other B	Aggregater	5	DSL	391.2603	2509.768		0.12956		0.394501	
SACRAMEN	2020	LDA	Aggregater	5	GAS	857.4971	677.5016		0.023644		0.010487	
SACRAMEN	2020	LDA	Aggregater	5	DSL	7.292934	545.3645		0.010572		0.085724	
SACRAMEN	2020	LDT1	Aggregater	5	GAS	88.07177	786.7351		0.045877		0.018574	
SACRAMEN	2020	LDT1	Aggregater	5	DSL	0.186056	1195.534		0.027505		0.187921	
SACRAMEN	2020	LDT2	Aggregater	5	GAS	294.6518	867.921		0.032091		0.015706	
SACRAMEN	2020	LDT2	Aggregater	5	DSL	1.561283	732.1866		0.012022		0.11509	
SACRAMEN	2020	LHD1	Aggregater	5	GAS	17214.06	1944.184		0.04927		0.028522	
SACRAMEN	2020	LHD1	Aggregater	5	DSL	8977.104	1263.285		0.036618		0.198571	
SACRAMEN	2020	LHD2	Aggregater	5	GAS	2278.465	2224.497		0.041355		0.027908	
SACRAMEN	2020	LHD2	Aggregater	5	DSL	2961.185	1326.779		0.035878		0.208551	
SACRAMEN	2020	MCY	Aggregater	5	GAS	8.65456	546.1975		1.895894		0.087599	
SACRAMEN	2020	MDV	Aggregater	5	GAS	207.5449	1058.848		0.043774		0.01965	
SACRAMEN	2020	MDV	Aggregater	5	DSL	4.234817	920.6633		0.009862		0.144715	
SACRAMEN	2020	MH	Aggregater	5	GAS	247.8252	4103.964		0.099567		0.051507	
SACRAMEN	2020	MH	Aggregater	5	DSL	75.75622	2094.601		0.051671		0.329242	
SACRAMEN	2020	Motor Coa	Aggregater	5	DSL	108.2087	3766.926		0.116726		0.592108	
SACRAMEN	2020	OBUS	Aggregater	5	GAS	250.5442	4121.148		0.12211		0.059888	
SACRAMEN	2020	SBUS	Aggregater	5	GAS	49.97481	1883.52		0.083114		0.048528	
SACRAMEN	2020	SBUS	Aggregater	5	DSL	449.098	2446.778		0.040986		0.384599	
SACRAMEN	2020	T6 Ag	Aggregater	5	DSL	1.315748	2600.74		0.240905		0.4088	
SACRAMEN	2020	T6 CAIRP h	Aggregater	5	DSL	168.7739	2351.345		0.01813		0.369599	
SACRAMEN	2020	T6 CAIRP s	Aggregater	5	DSL	24.17183	2408.84		0.032018		0.378636	
SACRAMEN	2020	T6 instate r	Aggregater	5	DSL	1400.919	2438.978		0.089515		0.383373	
SACRAMEN	2020	T6 instate r	Aggregater	5	DSL	10277.61	2457.884		0.085981		0.386345	
SACRAMEN	2020	T6 instate l	Aggregater	5	DSL	2738.005	2388.266		0.069538		0.375402	
SACRAMEN	2020	T6 instate :	Aggregater	5	DSL	3939.936	2449.577		0.093193		0.385039	
SACRAMEN	2020	T6 OOS he:	Aggregater	5	DSL	95.33866	2353.976		0.017144		0.370012	
SACRAMEN	2020	T6 OOS sm	Aggregater	5	DSL	13.33429	2413.447		0.034787		0.37936	
SACRAMEN	2020	T6 Public	Aggregater	5	DSL	2448.264	2436.809		0.022584		0.383032	
SACRAMEN	2020	T6 utility	Aggregater	5	DSL	40.83868	2445.058		0.006788		0.384329	
SACRAMEN	2020	T6TS	Aggregater	5	GAS	939.6014	4086.852		0.12994		0.056622	
SACRAMEN	2020	T7 Ag	Aggregater	5	DSL	0.740689	4054.326		0.434849		0.637284	
SACRAMEN	2020	T7 CAIRP	Aggregater	5	DSL	1186.77	3526.015		0.030312		0.554241	
SACRAMEN	2020	T7 CAIRP c	Aggregater	5	DSL	1024.838	3567.683		0.029272		0.56079	
SACRAMEN	2020	T7 NNOOS	Aggregater	5	DSL	1446.876	3386.417		0.031952		0.532298	
SACRAMEN	2020	T7 NOOS	Aggregater	5	DSL	466.2757	3527.231		0.027989		0.554432	
SACRAMEN	2020	T7 other pr	Aggregater	5	DSL	68.31351	3758.805		0.047014		0.590832	
SACRAMEN	2020	T7 POAK	Aggregater	5	DSL	199.2745	3783.422		0.056021		0.594701	
SACRAMEN	2020	T7 Public	Aggregater	5	DSL	3084.622	3673.618		0.032136		0.577442	
SACRAMEN	2020	T7 Single	Aggregater	5	DSL	1224.134	3588.253		0.092151		0.564023	
SACRAMEN	2020	T7 single cr	Aggregater	5	DSL	2542.435	3668.883		0.098145		0.576697	
SACRAMEN	2020	T7 SWCV	Aggregater	5	DSL	630.139	8062.179		0.006463		1.267262	
SACRAMEN	2020	T7 SWCV	Aggregater	5	NG	287.7563	5736.707		19.5358		1.169465	
SACRAMEN	2020	T7 tractor	Aggregater	5	DSL	442.7328	3627.728		0.089782		0.570228	
SACRAMEN	2020	T7 tractor r	Aggregater	5	DSL	2097.285	3699.409		0.101616		0.581496	
SACRAMEN	2020	T7 utility	Aggregater	5	DSL	6.716815	3792.952		0.02064		0.596199	
SACRAMEN	2020	T7IS	Aggregater	5	GAS	1.322044	5514.231		2.028832		0.335923	
SACRAMEN	2020	UBUS	Aggregater	5	GAS	189.4096	4091.889		0.021736		0.037619	
SACRAMEN	2020	UBUS	Aggregater	5	DSL	3.556491	2028.438		0.169181		0.318842	
SACRAMEN	2020	UBUS	Aggregater	5	NG	507.6318	2854.296	2418.101	9.927545	0.20646	0.581867	0.289943
SACRAMEN	2020	All Other B	Aggregater	10	DSL	1182.824	2147.752		0.097859		0.337597	
SACRAMEN	2020	LDA	Aggregater	10	GAS	65364.15	553.8122		0.015127		0.009032	
SACRAMEN	2020	LDA	Aggregater	10	DSL	555.916	454.3401		0.007805		0.071416	
SACRAMEN	2020	LDT1	Aggregater	10	GAS	6713.418	642.5693		0.029938		0.015701	
SACRAMEN	2020	LDT1	Aggregater	10	DSL	14.1824	1006.361		0.019291		0.158186	
SACRAMEN	2020	LDT2	Aggregater	10	GAS	22460.32	708.5143		0.020693		0.013424	
SACRAMEN	2020	LDT2	Aggregater	10	DSL	119.0114	616.3302		0.008971		0.096879	
SACRAMEN	2020	LHD1	Aggregater	10	GAS	44887.06	1577.99		0.032073		0.025051	
SACRAMEN	2020	LHD1	Aggregater	10	DSL	29852.96	1061.988		0.026423		0.16693	
SACRAMEN	2020	LHD2	Aggregater	10	GAS	5941.281	1805.576		0.026922		0.024486	
SACRAMEN	2020	LHD2	Aggregater	10	DSL	9847.29	1179.15		0.026097		0.185346	
SACRAMEN	2020	MCY	Aggregater	10	GAS	659.7082	429.9175		1.239372		0.079628	
SACRAMEN	2020	MDV	Aggregater	10	GAS	15820.46	863.6551		0.028345		0.016789	
SACRAMEN	2020	MDV	Aggregater	10	DSL	322.806	781.8672		0.007343		0.122899	
SACRAMEN	2020	MH	Aggregater	10	GAS	1245.819	3330.908		0.064357		0.045326	
SACRAMEN	2020	MH	Aggregater	10	DSL	377.0859	1901.907		0.039035		0.298953	
SACRAMEN	2020	Motor Coa	Aggregater	10	DSL	246.043	3179.889		0.088148		0.499834	
SACRAMEN	2020	OBUS	Aggregater	10	GAS	1259.488	3345.452		0.077477		0.052338	
SACRAMEN	2020	SBUS	Aggregater	10	GAS	175.1592	1529.091		0.052417		0.041987	
SACRAMEN	2020	SBUS	Aggregater	10	DSL	1105.562	2160.3		0.031278		0.339569	
SACRAMEN	2020	T6 Ag	Aggregater	10	DSL	4.028229	2247.605		0.185112		0.353292	
SACRAMEN	2020	T6 CAIRP h	Aggregater	10	DSL	383.2683	1959.121		0.013475		0.307946	
SACRAMEN	2020	T6 CAIRP s	Aggregater	10	DSL	54.89174	2015.011		0.02398		0.316732	
SACRAMEN	2020	T6 instate r	Aggregater	10	DSL	1035.055	2090.243		0.06761		0.328557	
SACRAMEN	2020	T6 instate r	Aggregater	10	DSL	7593.504	2085.41		0.064712		0.327797	
SACRAMEN	2020	T6 instate l	Aggregater	10	DSL	6211.271	2025.295		0.052417		0.318348	
SACRAMEN	2020	T6 instate :	Aggregater	10	DSL	8937.898	2081.664		0.070147		0.327209	
SACRAMEN	2020	T6 OOS he:	Aggregater	10	DSL	216.5043	1960.554		0.012723		0.308172	
SACRAMEN	2020	T6 OOS sm	Aggregater	10	DSL	30.28082	2020.529		0.026071		0.317599	
SACRAMEN	2020	T6 Public	Aggregater	10	DSL	4658.343	2122.952		0.017317		0.333698	
SACRAMEN	2020	T6 utility	Aggregater	10	DSL	146.7184	2051.852		0.004997		0.322523	
SACRAMEN	2020	T6TS	Aggregater	10	GAS	4723.385	3317.427		0.083037		0.049584	
SACRAMEN	2020	T7 Ag	Aggregater	10	DSL	2.4823	3501.475		0.339515		0.550383	
SACRAMEN	2020	T7 CAIRP	Aggregater	10	DSL	2698.456	2938.643		0.022367		0.461914	

SACRAMEN	2020 T7 CAIRP c	Aggregator	10	DSL	704.9203	2973.112		0.021592		0.467332
SACRAMEN	2020 T7 NNOOS	Aggregator	10	DSL	3289.879	2819.416		0.023529		0.443173
SACRAMEN	2020 T7 NOOS	Aggregator	10	DSL	1060.209	2939.194		0.020594		0.462
SACRAMEN	2020 T7 other pr	Aggregator	10	DSL	124.2575	3187.05		0.036072		0.50096
SACRAMEN	2020 T7 POAK	Aggregator	10	DSL	362.4665	3225.109		0.043283		0.506942
SACRAMEN	2020 T7 Public	Aggregator	10	DSL	5413.085	3197.749		0.024817		0.502642
SACRAMEN	2020 T7 Single	Aggregator	10	DSL	2852.339	3046.807		0.069412		0.478916
SACRAMEN	2020 T7 single cr	Aggregator	10	DSL	1748.777	3128.441		0.074153		0.491747
SACRAMEN	2020 T7 SWCV	Aggregator	10	DSL	1647.49	7059.525		0.004309		1.109659
SACRAMEN	2020 T7 SWCV	Aggregator	10	NG	752.3351	5102.939		15.49153		1.040268
SACRAMEN	2020 T7 tractor	Aggregator	10	DSL	945.5224	3061.04		0.067736		0.481153
SACRAMEN	2020 T7 tractor r	Aggregator	10	DSL	1442.587	3137.244		0.07687		0.493131
SACRAMEN	2020 T7 utility	Aggregator	10	DSL	26.404	3230.754		0.01575		0.507829
SACRAMEN	2020 T7IS	Aggregator	10	GAS	6.461509	4424.241		1.35337		0.300755
SACRAMEN	2020 UBUS	Aggregator	10	GAS	626.844	3323.055		0.013682		0.032704
SACRAMEN	2020 UBUS	Aggregator	10	DSL	11.7805	1759.65		0.130382		0.276593
SACRAMEN	2020 UBUS	Aggregator	10	NG	1681.477	2453.887	1390.412	8.256448	0.128364	0.500241 0.12627
SACRAMEN	2020 All Other B	Aggregator	15	DSL	1345.395	1725.632		0.050692		0.271245
SACRAMEN	2020 LDA	Aggregator	15	GAS	207263.7	452.7126		0.010092		0.00794
SACRAMEN	2020 LDA	Aggregator	15	DSL	1762.759	373.6934		0.004159		0.058739
SACRAMEN	2020 LDT1	Aggregator	15	GAS	21287.63	525.3668		0.020353		0.013616
SACRAMEN	2020 LDT1	Aggregator	15	DSL	44.9711	834.4388		0.013559		0.131162
SACRAMEN	2020 LDT2	Aggregator	15	GAS	71219.62	579.2587		0.01391		0.011735
SACRAMEN	2020 LDT2	Aggregator	15	DSL	377.3742	511.0393		0.004471		0.080328
SACRAMEN	2020 LHD1	Aggregator	15	GAS	102213.9	1290.394		0.022057		0.02237
SACRAMEN	2020 LHD1	Aggregator	15	DSL	64652.96	693.567		0.016053		0.109019
SACRAMEN	2020 LHD2	Aggregator	15	GAS	13529.1	1476.513		0.018513		0.021843
SACRAMEN	2020 LHD2	Aggregator	15	DSL	21326.41	784.9244		0.015167		0.123379
SACRAMEN	2020 MCV	Aggregator	15	GAS	2091.874	345.4687		0.856233		0.074125
SACRAMEN	2020 MDV	Aggregator	15	GAS	50165.22	706.0785		0.01915		0.014685
SACRAMEN	2020 MDV	Aggregator	15	DSL	1023.588	663.0759		0.003711		0.104226
SACRAMEN	2020 MH	Aggregator	15	GAS	1573.683	2723.807		0.044096		0.04023
SACRAMEN	2020 MH	Aggregator	15	DSL	508.9351	1561.63		0.019841		0.245467
SACRAMEN	2020 Motor Coa	Aggregator	15	DSL	230.0915	2537.433		0.046571		0.398849
SACRAMEN	2020 OBUS	Aggregator	15	GAS	1590.949	2736.106		0.05212		0.046116
SACRAMEN	2020 SBUS	Aggregator	15	GAS	350.3183	1250.648		0.034793		0.037072
SACRAMEN	2020 SBUS	Aggregator	15	DSL	1420.059	1760.536		0.0169		0.276732
SACRAMEN	2020 T6 Ag	Aggregator	15	DSL	3.853496	1805.829		0.099175		0.283851
SACRAMEN	2020 T6 CAIRP h	Aggregator	15	DSL	374.0358	1549.94		0.007193		0.243629
SACRAMEN	2020 T6 CAIRP s	Aggregator	15	DSL	53.56946	1598.398		0.012695		0.251246
SACRAMEN	2020 T6 instate r	Aggregator	15	DSL	271.0334	1681.125		0.035368		0.264249
SACRAMEN	2020 T6 instate r	Aggregator	15	DSL	1988.391	1667.017		0.033603		0.262032
SACRAMEN	2020 T6 instate l	Aggregator	15	DSL	7933.662	1619.963		0.027422		0.254636
SACRAMEN	2020 T6 instate :	Aggregator	15	DSL	11416.39	1665.172		0.036347		0.261742
SACRAMEN	2020 T6 OOS he	Aggregator	15	DSL	211.289	1550.812		0.006818		0.243766
SACRAMEN	2020 T6 OOS sm	Aggregator	15	DSL	29.55139	1603.53		0.013775		0.252053
SACRAMEN	2020 T6 Public	Aggregator	15	DSL	3725.942	1717.802		0.009604		0.270015
SACRAMEN	2020 T6 utility	Aggregator	15	DSL	156.1181	1633.862		0.003059		0.25682
SACRAMEN	2020 T6TS	Aggregator	15	GAS	5966.445	2713.104		0.056268		0.043783
SACRAMEN	2020 T7 Ag	Aggregator	15	DSL	2.440114	2811.159		0.188252		0.441875
SACRAMEN	2020 T7 CAIRP	Aggregator	15	DSL	2523.509	2327.923		0.012651		0.365917
SACRAMEN	2020 T7 CAIRP c	Aggregator	15	DSL	149.7469	2355.117		0.012246		0.370192
SACRAMEN	2020 T7 NNOOS	Aggregator	15	DSL	3076.589	2229.147		0.012657		0.350391
SACRAMEN	2020 T7 NOOS	Aggregator	15	DSL	991.4732	2328.373		0.011777		0.365988
SACRAMEN	2020 T7 other pr	Aggregator	15	DSL	114.8858	2573.227		0.024291		0.404475
SACRAMEN	2020 T7 POAK	Aggregator	15	DSL	335.1288	2617.712		0.029298		0.411468
SACRAMEN	2020 T7 Public	Aggregator	15	DSL	4157.518	2590.201		0.014367		0.407144
SACRAMEN	2020 T7 Single	Aggregator	15	DSL	3547.216	2436.706		0.03643		0.383016
SACRAMEN	2020 T7 single cr	Aggregator	15	DSL	371.4945	2509.064		0.039232		0.39439
SACRAMEN	2020 T7 SWCV	Aggregator	15	DSL	1762.978	5730.58		0.002549		0.900767
SACRAMEN	2020 T7 SWCV	Aggregator	15	NG	805.073	4282.931		10.07638		0.873104
SACRAMEN	2020 T7 tractor	Aggregator	15	DSL	1205.574	2445.814		0.036933		0.384448
SACRAMEN	2020 T7 tractor r	Aggregator	15	DSL	306.4502	2515.428		0.042112		0.39539
SACRAMEN	2020 T7 utility	Aggregator	15	DSL	26.01243	2601.041		0.009885		0.408847
SACRAMEN	2020 T7IS	Aggregator	15	GAS	7.046377	3596.538		0.952112		0.275533
SACRAMEN	2020 UBUS	Aggregator	15	GAS	1070.064	2715.275		0.009078		0.028816
SACRAMEN	2020 UBUS	Aggregator	15	DSL	20.07188	1427.651		0.080622		0.224407
SACRAMEN	2020 UBUS	Aggregator	15	NG	2864.938	2219.618	864.9797	7.278213	0.065956	0.452484 0.055519
SACRAMEN	2020 All Other B	Aggregator	20	DSL	1562.558	1462.145		0.024014		0.229829
SACRAMEN	2020 LDA	Aggregator	20	GAS	777188.3	375.4414		0.007078		0.007117
SACRAMEN	2020 LDA	Aggregator	20	DSL	6609.914	306.55		0.002011		0.048185
SACRAMEN	2020 LDT1	Aggregator	20	GAS	79823.42	435.8944		0.014517		0.012089
SACRAMEN	2020 LDT1	Aggregator	20	DSL	168.6306	685.5552		0.009961		0.10776
SACRAMEN	2020 LDT2	Aggregator	20	GAS	267056.2	480.6422		0.009823		0.010478
SACRAMEN	2020 LDT2	Aggregator	20	DSL	1415.061	419.8578		0.00184		0.065996
SACRAMEN	2020 LHD1	Aggregator	20	GAS	118107.4	1072.604		0.015904		0.020434
SACRAMEN	2020 LHD1	Aggregator	20	DSL	70880.53	591.1611		0.00981		0.092922
SACRAMEN	2020 LHD2	Aggregator	20	GAS	15632.77	1227.304		0.013351		0.01993
SACRAMEN	2020 LHD2	Aggregator	20	DSL	23380.63	669.4828		0.008644		0.105233
SACRAMEN	2020 MCV	Aggregator	20	GAS	7844.017	284.5685		0.624123		0.070333
SACRAMEN	2020 MDV	Aggregator	20	GAS	188107.3	585.9884		0.013598		0.013129
SACRAMEN	2020 MDV	Aggregator	20	DSL	3838.205	550.6819		0.001584		0.08656
SACRAMEN	2020 MH	Aggregator	20	GAS	1632.296	2264.076		0.03171		0.036577
SACRAMEN	2020 MH	Aggregator	20	DSL	539.7442	1281.503		0.008749		0.201434
SACRAMEN	2020 Motor Coa	Aggregator	20	DSL	336.166	2160.843		0.023031		0.339654
SACRAMEN	2020 OBUS	Aggregator	20	GAS	1650.205	2274.57		0.036828		0.041608
SACRAMEN	2020 PTO	Aggregator	20	DSL	18015.43	2068.178		0.018006		0.325089
SACRAMEN	2020 SBUS	Aggregator	20	GAS	475.5001	1039.754		0.02437		0.033245
SACRAMEN	2020 SBUS	Aggregator	20	DSL	1874.3	1472.398		0.00847		0.23144
SACRAMEN	2020 T6 Ag	Aggregator	20	DSL	2.966232	1512.255		0.046842		0.237705
SACRAMEN	2020 T6 CAIRP h	Aggregator	20	DSL	483.6388	1322.538		0.00377		0.207885
SACRAMEN	2020 T6 CAIRP s	Aggregator	20	DSL	69.26683	1363.168		0.006494		0.214271
SACRAMEN	2020 T6 instate r	Aggregator	20	DSL	235.649	1424.371		0.017232		0.223891
SACRAMEN	2020 T6 instate r	Aggregator	20	DSL	1728.799	1415.169		0.016319		0.222445

SACRAMEN	2020 T6 instate l	Aggregator	20 DSL	10465.01	1377.445		0.013367			0.216515
SACRAMEN	2020 T6 instate :	Aggregator	20 DSL	15058.95	1412.513		0.017569			0.222027
SACRAMEN	2020 T6 OOS he:	Aggregator	20 DSL	273.2027	1323.554		0.003623			0.208044
SACRAMEN	2020 T6 OOS sm	Aggregator	20 DSL	38.21078	1367.218		0.007013			0.214908
SACRAMEN	2020 T6 Public	Aggregator	20 DSL	2779.73	1441.946		0.004922			0.226654
SACRAMEN	2020 T6 utility	Aggregator	20 DSL	131.5754	1396.713		0.00201			0.219544
SACRAMEN	2020 T6TS	Aggregator	20 GAS	6188.668	2255.409		0.040036			0.039593
SACRAMEN	2020 T7 Ag	Aggregator	20 DSL	1.860149	2352.163		0.090597			0.369727
SACRAMEN	2020 T7 CAIRP	Aggregator	20 DSL	3686.872	1989.965		0.00736			0.312795
SACRAMEN	2020 T7 CAIRP c	Aggregator	20 DSL	149.1756	2013.271		0.007165			0.316458
SACRAMEN	2020 T7 NNOOS	Aggregator	20 DSL	4494.926	1901.9		0.00682			0.298952
SACRAMEN	2020 T7 NOOS	Aggregator	20 DSL	1448.552	1990.774		0.007014			0.312922
SACRAMEN	2020 T7 other pr	Aggregator	20 DSL	88.83707	2222.178		0.017335			0.349295
SACRAMEN	2020 T7 POAK	Aggregator	20 DSL	259.143	2265.624		0.020928			0.356125
SACRAMEN	2020 T7 Public	Aggregator	20 DSL	3104.297	2179.706		0.007928			0.342619
SACRAMEN	2020 T7 Single	Aggregator	20 DSL	4532.084	2068.178		0.018006			0.325089
SACRAMEN	2020 T7 single cr	Aggregator	20 DSL	370.0773	2128.601		0.019527			0.334586
SACRAMEN	2020 T7 SWCV	Aggregator	20 DSL	1481.386	4805.745		0.001756			0.755396
SACRAMEN	2020 T7 SWCV	Aggregator	20 NG	676.4828	3730.429		6.756444			0.760472
SACRAMEN	2020 T7 tractor	Aggregator	20 DSL	1377.504	2088.516		0.019552			0.328286
SACRAMEN	2020 T7 tractor	Aggregator	20 DSL	305.2812	2147.193		0.022458			0.337509
SACRAMEN	2020 T7 utility	Aggregator	20 DSL	20.36405	2223.618		0.006495			0.349522
SACRAMEN	2020 T7IS	Aggregator	20 GAS	12.04214	2982.509		0.706977			0.259035
SACRAMEN	2020 UBUS	Aggregator	20 GAS	9308.032	2264.218		0.006374			0.026004
SACRAMEN	2020 UBUS	Aggregator	20 DSL	175.8396	1209.948		0.052985			0.190187
SACRAMEN	2020 UBUS	Aggregator	20 NG	25098.27	2053.406	599.9211	6.584212	0.11373	0.4186	0.034378
SACRAMEN	2020 All Other B	Aggregator	25 DSL	1900.559	1292.489		0.017362			0.203161
SACRAMEN	2020 LDA	Aggregator	25 GAS	2510124	320.4323		0.00524			0.006492
SACRAMEN	2020 LDA	Aggregator	25 DSL	21348.37	256.9629		0.001366			0.040391
SACRAMEN	2020 LDT1	Aggregator	25 GAS	257809.7	372.1471		0.010897			0.010959
SACRAMEN	2020 LDT1	Aggregator	25 DSL	544.6348	574.8133		0.007869			0.090353
SACRAMEN	2020 LDT2	Aggregator	25 GAS	862524.6	410.3631		0.007313			0.009532
SACRAMEN	2020 LDT2	Aggregator	25 DSL	4570.293	352.0356		0.001146			0.055335
SACRAMEN	2020 LHD1	Aggregator	25 GAS	90979.08	916.7991		0.012016			0.019142
SACRAMEN	2020 LHD1	Aggregator	25 DSL	75861.07	524.3036		0.007327			0.082413
SACRAMEN	2020 LHD2	Aggregator	25 GAS	12042.05	1049.023		0.01009			0.018649
SACRAMEN	2020 LHD2	Aggregator	25 DSL	25023.52	596.6139		0.006295			0.093779
SACRAMEN	2020 MCY	Aggregator	25 GAS	25334.22	242.0245		0.47903			0.067731
SACRAMEN	2020 MDV	Aggregator	25 GAS	607539.6	500.3717		0.010179			0.011967
SACRAMEN	2020 MDV	Aggregator	25 DSL	12396.44	465.6582		0.001008			0.073195
SACRAMEN	2020 MH	Aggregator	25 GAS	1818.755	1935.219		0.024039			0.033772
SACRAMEN	2020 MH	Aggregator	25 DSL	562.1221	1149.457		0.006076			0.180679
SACRAMEN	2020 Motor Coa	Aggregator	25 DSL	295.6735	1901.893		0.016677			0.298951
SACRAMEN	2020 OBUS	Aggregator	25 GAS	1838.71	1944.357		0.02746			0.03812
SACRAMEN	2020 SBUS	Aggregator	25 GAS	750.6089	888.8487		0.017996			0.030331
SACRAMEN	2020 SBUS	Aggregator	25 DSL	2410.515	1313.425		0.006089			0.206452
SACRAMEN	2020 T6 Ag	Aggregator	25 DSL	3.026845	1337.51		0.033602			0.210238
SACRAMEN	2020 T6 CAIRP h	Aggregator	25 DSL	415.7711	1157.95		0.002834			0.182014
SACRAMEN	2020 T6 CAIRP s	Aggregator	25 DSL	59.5468	1195.463		0.004884			0.18791
SACRAMEN	2020 T6 instate	Aggregator	25 DSL	313.0776	1259.853		0.012665			0.198031
SACRAMEN	2020 T6 instate	Aggregator	25 DSL	2296.842	1247.05		0.012134			0.196019
SACRAMEN	2020 T6 instate l	Aggregator	25 DSL	14623.12	1214.172		0.009755			0.190851
SACRAMEN	2020 T6 instate :	Aggregator	25 DSL	21042.39	1245.266		0.013063			0.195738
SACRAMEN	2020 T6 OOS he:	Aggregator	25 DSL	234.8649	1158.712		0.002748			0.182133
SACRAMEN	2020 T6 OOS sm	Aggregator	25 DSL	32.84876	1199.367		0.005272			0.188524
SACRAMEN	2020 T6 Public	Aggregator	25 DSL	3938.64	1280.583		0.003538			0.20129
SACRAMEN	2020 T6 utility	Aggregator	25 DSL	156.6061	1227.578		0.001509			0.192958
SACRAMEN	2020 T6TS	Aggregator	25 GAS	6895.607	1927.959		0.030051			0.036357
SACRAMEN	2020 T7 Ag	Aggregator	25 DSL	1.868265	2079.607		0.064258			0.326885
SACRAMEN	2020 T7 CAIRP	Aggregator	25 DSL	3242.774	1743.574		0.005486			0.274066
SACRAMEN	2020 T7 CAIRP c	Aggregator	25 DSL	201.2079	1763.941		0.005348			0.277267
SACRAMEN	2020 T7 NNOOS	Aggregator	25 DSL	3953.495	1664.581		0.005158			0.261649
SACRAMEN	2020 T7 NOOS	Aggregator	25 DSL	1274.068	1744.272		0.00526			0.274175
SACRAMEN	2020 T7 other pr	Aggregator	25 DSL	92.3225	1968.156		0.012845			0.309367
SACRAMEN	2020 T7 POAK	Aggregator	25 DSL	269.3102	2012.506		0.015485			0.316338
SACRAMEN	2020 T7 Public	Aggregator	25 DSL	5161.295	1936.784		0.005762			0.304435
SACRAMEN	2020 T7 Single	Aggregator	25 DSL	6230.127	1823.038		0.013284			0.286556
SACRAMEN	2020 T7 single cr	Aggregator	25 DSL	499.1597	1879.51		0.0143			0.295433
SACRAMEN	2020 T7 SWCV	Aggregator	25 DSL	1798.679	4276.431		0.00135			0.672195
SACRAMEN	2020 T7 SWCV	Aggregator	25 NG	821.376	3423.946		4.998385			0.697994
SACRAMEN	2020 T7 tractor	Aggregator	25 DSL	1675.592	1839.452		0.014311			0.289136
SACRAMEN	2020 T7 tractor	Aggregator	25 DSL	411.7628	1895.066		0.016486			0.297878
SACRAMEN	2020 T7 utility	Aggregator	25 DSL	24.85663	1967.116		0.004812			0.309203
SACRAMEN	2020 T7IS	Aggregator	25 GAS	15.71576	2544.903		0.548569			0.244428
SACRAMEN	2020 UBUS	Aggregator	25 GAS	120.1321	1879.611		0.0046			0.022377
SACRAMEN	2020 UBUS	Aggregator	25 DSL	2.123876	1088.05		0.041921			0.171026
SACRAMEN	2020 UBUS	Aggregator	25 NG	303.149	1924.488	405.6324	6.04597	0.010793		0.392319 0.014656
SACRAMEN	2020 All Other B	Aggregator	30 DSL	2591.59	1166.066		0.013901			0.183289
SACRAMEN	2020 LDA	Aggregator	30 GAS	1753078	284.4626		0.004101			0.006017
SACRAMEN	2020 LDA	Aggregator	30 DSL	14909.76	222.5771		0.001083			0.034986
SACRAMEN	2020 LDT1	Aggregator	30 GAS	180055	330.3682		0.008617			0.010125
SACRAMEN	2020 LDT1	Aggregator	30 DSL	380.3746	497.0509		0.00655			0.078129
SACRAMEN	2020 LDT2	Aggregator	30 GAS	602389.8	364.2729		0.005747			0.008821
SACRAMEN	2020 LDT2	Aggregator	30 DSL	3191.906	304.4112		0.000879			0.047849
SACRAMEN	2020 LHD1	Aggregator	30 GAS	80455.37	813.5031		0.009635			0.017964
SACRAMEN	2020 LHD1	Aggregator	30 DSL	64036.36	476.1244		0.005996			0.07484
SACRAMEN	2020 LHD2	Aggregator	30 GAS	10649.13	930.8259		0.008091			0.017482
SACRAMEN	2020 LHD2	Aggregator	30 DSL	21123.02	538.0506		0.00511			0.084574
SACRAMEN	2020 MCY	Aggregator	30 GAS	17693.49	213.9102		0.386595			0.065994
SACRAMEN	2020 MDV	Aggregator	30 GAS	424307.5	444.1452		0.008042			0.011102
SACRAMEN	2020 MDV	Aggregator	30 DSL	8657.713	402.1837		0.00078			0.063218
SACRAMEN	2020 MH	Aggregator	30 GAS	2056.362	1717.161		0.019137			0.03181
SACRAMEN	2020 MH	Aggregator	30 DSL	675.9063	1078.939		0.004901			0.169594
SACRAMEN	2020 Motor Coa	Aggregator	30 DSL	163.422	1698.894		0.013211			0.267042

SACRAMEN	2020 OBUS	Aggregator	30 GAS	2078.924	1725.342	0.021528		0.03563
SACRAMEN	2020 SBUS	Aggregator	30 GAS	900.5334	788.7487	0.01402		0.028116
SACRAMEN	2020 SBUS	Aggregator	30 DSL	2811.936	1210.986	0.004832		0.19035
SACRAMEN	2020 T6 Ag	Aggregator	30 DSL	3.7226	1214.615	0.027821		0.190921
SACRAMEN	2020 T6 CAIRP h	Aggregator	30 DSL	263.8703	1019.537	0.002312		0.160257
SACRAMEN	2020 T6 CAIRP s	Aggregator	30 DSL	37.79154	1060.225	0.00401		0.166653
SACRAMEN	2020 T6 instate r	Aggregator	30 DSL	360.3082	1137.806	0.010274		0.178847
SACRAMEN	2020 T6 instate l	Aggregator	30 DSL	2643.341	1117.889	0.009969		0.175717
SACRAMEN	2020 T6 instate l	Aggregator	30 DSL	18643.19	1082.815	0.007835		0.170203
SACRAMEN	2020 T6 instate :	Aggregator	30 DSL	26827.19	1117.579	0.010745		0.175668
SACRAMEN	2020 T6 OOS he	Aggregator	30 DSL	149.0576	1019.858	0.002256		0.160307
SACRAMEN	2020 T6 OOS sm	Aggregator	30 DSL	20.84756	1064.365	0.004332		0.167303
SACRAMEN	2020 T6 Public	Aggregator	30 DSL	5468.517	1169.804	0.002841		0.183877
SACRAMEN	2020 T6 utility	Aggregator	30 DSL	202.9338	1091.703	0.001168		0.1716
SACRAMEN	2020 T6TS	Aggregator	30 GAS	7796.466	1710.78	0.023703		0.03406
SACRAMEN	2020 T7 Ag	Aggregator	30 DSL	2.393253	1888.499	0.053451		0.296846
SACRAMEN	2020 T7 CAIRP	Aggregator	30 DSL	1792.316	1533.604	0.00432		0.241061
SACRAMEN	2020 T7 CAIRP c	Aggregator	30 DSL	241.5425	1560	0.004214		0.24521
SACRAMEN	2020 T7 NNOOS	Aggregator	30 DSL	2185.14	1464.936	0.004207		0.230268
SACRAMEN	2020 T7 NOOS	Aggregator	30 DSL	704.1916	1534.026	0.004152		0.241128
SACRAMEN	2020 T7 other pr	Aggregator	30 DSL	114.4044	1765.511	0.009624		0.277514
SACRAMEN	2020 T7 POAK	Aggregator	30 DSL	333.7244	1812.598	0.01158		0.284915
SACRAMEN	2020 T7 Public	Aggregator	30 DSL	8386.757	1768.913	0.004599		0.278048
SACRAMEN	2020 T7 Single	Aggregator	30 DSL	7853.96	1635.299	0.010762		0.257046
SACRAMEN	2020 T7 single cr	Aggregator	30 DSL	599.2226	1691.423	0.011481		0.265868
SACRAMEN	2020 T7 SWCV	Aggregator	30 DSL	1871.303	3922.216	0.001064		0.616518
SACRAMEN	2020 T7 SWCV	Aggregator	30 NG	854.5404	3226.071	3.787557		0.657656
SACRAMEN	2020 T7 tractor	Aggregator	30 DSL	2116.247	1633.526	0.011281		0.256768
SACRAMEN	2020 T7 tractor r	Aggregator	30 DSL	494.3059	1698.98	0.013023		0.267056
SACRAMEN	2020 T7 utility	Aggregator	30 DSL	32.77275	1769.475	0.003667		0.278137
SACRAMEN	2020 T7IS	Aggregator	30 GAS	28.69992	2256.031	0.44758		0.234467
SACRAMEN	2020 UBUS	Aggregator	30 GAS	124.729	1672.698	0.003589		0.020889
SACRAMEN	2020 UBUS	Aggregator	30 DSL	2.220013	1004.946	0.03484		0.157963
SACRAMEN	2020 UBUS	Aggregator	30 NG	316.871	1819.157	376.6669	5.606251	0.009099 0.370847 0.015989
SACRAMEN	2020 All Other B	Aggregator	35 DSL	4766.949	1067.469	0.011234		0.167791
SACRAMEN	2020 LDA	Aggregator	35 GAS	3116102	263.5273	0.003377		0.005658
SACRAMEN	2020 LDA	Aggregator	35 DSL	26502.16	201.2052	0.000903		0.031627
SACRAMEN	2020 LDT1	Aggregator	35 GAS	320048.5	306.0574	0.007143		0.00952
SACRAMEN	2020 LDT1	Aggregator	35 DSL	676.1172	448.6075	0.005708		0.070515
SACRAMEN	2020 LDT2	Aggregator	35 GAS	1070750	337.4993	0.004745		0.008293
SACRAMEN	2020 LDT2	Aggregator	35 DSL	5673.625	274.7428	0.00071		0.043186
SACRAMEN	2020 LHD1	Aggregator	35 GAS	30063.25	754.0594	0.008033		0.017475
SACRAMEN	2020 LHD1	Aggregator	35 DSL	33794.47	476.1244	0.005148		0.07484
SACRAMEN	2020 LHD2	Aggregator	35 GAS	3979.191	862.8231	0.006749		0.016988
SACRAMEN	2020 LHD2	Aggregator	35 DSL	11147.44	538.0506	0.004356		0.084574
SACRAMEN	2020 MCV	Aggregator	35 GAS	31450.24	197.2705	0.327739		0.065004
SACRAMEN	2020 MDV	Aggregator	35 GAS	754208.1	411.5225	0.006674		0.010464
SACRAMEN	2020 MDV	Aggregator	35 DSL	15389.12	364.9261	0.000635		0.057361
SACRAMEN	2020 MH	Aggregator	35 GAS	2555.746	1591.724	0.016054		0.030421
SACRAMEN	2020 MH	Aggregator	35 DSL	796.9826	1020.418	0.004026		0.160395
SACRAMEN	2020 Motor Coa	Aggregator	35 DSL	218.4801	1541.806	0.010559		0.24235
SACRAMEN	2020 OBUS	Aggregator	35 GAS	2583.787	1599.294	0.017808		0.033828
SACRAMEN	2020 SBUS	Aggregator	35 GAS	924.2842	731.1099	0.011501		0.026575
SACRAMEN	2020 SBUS	Aggregator	35 DSL	2396.362	1129.266	0.003873		0.177505
SACRAMEN	2020 T6 Ag	Aggregator	35 DSL	4.925995	1117.73	0.023286		0.175692
SACRAMEN	2020 T6 CAIRP h	Aggregator	35 DSL	379.392	912.7929	0.001903		0.143478
SACRAMEN	2020 T6 CAIRP s	Aggregator	35 DSL	54.33658	955.9071	0.00332		0.150255
SACRAMEN	2020 T6 instate r	Aggregator	35 DSL	454.3318	1042.545	0.008408		0.163874
SACRAMEN	2020 T6 instate r	Aggregator	35 DSL	3333.129	1017.555	0.008257		0.159945
SACRAMEN	2020 T6 instate l	Aggregator	35 DSL	15603.47	980.6063	0.006351		0.154138
SACRAMEN	2020 T6 instate l	Aggregator	35 DSL	22453.1	1018.293	0.00891		0.160061
SACRAMEN	2020 T6 OOS he	Aggregator	35 DSL	214.3147	912.7944	0.001868		0.143479
SACRAMEN	2020 T6 OOS sm	Aggregator	35 DSL	29.97456	960.1909	0.003589		0.150929
SACRAMEN	2020 T6 Public	Aggregator	35 DSL	6978.085	1082.233	0.002308		0.170112
SACRAMEN	2020 T6 utility	Aggregator	35 DSL	247.5599	986.887	0.000913		0.155125
SACRAMEN	2020 T6TS	Aggregator	35 GAS	9689.825	1585.787	0.019718		0.032408
SACRAMEN	2020 T7 Ag	Aggregator	35 DSL	3.301951	1738.184	0.044967		0.273218
SACRAMEN	2020 T7 CAIRP	Aggregator	35 DSL	2396.162	1371.734	0.003437		0.215617
SACRAMEN	2020 T7 CAIRP c	Aggregator	35 DSL	311.9277	1403.035	0.003355		0.220538
SACRAMEN	2020 T7 NNOOS	Aggregator	35 DSL	2921.331	1311.01	0.003465		0.206072
SACRAMEN	2020 T7 NOOS	Aggregator	35 DSL	941.4394	1371.957	0.003312		0.215653
SACRAMEN	2020 T7 other pr	Aggregator	35 DSL	141.2319	1609.342	0.007246		0.252966
SACRAMEN	2020 T7 POAK	Aggregator	35 DSL	411.9818	1658.417	0.008696		0.26068
SACRAMEN	2020 T7 Public	Aggregator	35 DSL	9841.04	1636.672	0.003712		0.257262
SACRAMEN	2020 T7 Single	Aggregator	35 DSL	6769.203	1489.462	0.008794		0.234123
SACRAMEN	2020 T7 single cr	Aggregator	35 DSL	773.8353	1545.095	0.009299		0.242867
SACRAMEN	2020 T7 SWCV	Aggregator	35 DSL	2037.981	3642.002	0.000852		0.572472
SACRAMEN	2020 T7 SWCV	Aggregator	35 NG	930.6547	3069.561	2.882192		0.62575
SACRAMEN	2020 T7 tractor	Aggregator	35 DSL	2468.341	1473.942	0.008972		0.231683
SACRAMEN	2020 T7 tractor r	Aggregator	35 DSL	638.346	1547.13	0.010378		0.243187
SACRAMEN	2020 T7 utility	Aggregator	35 DSL	40.53085	1616.244	0.002813		0.254051
SACRAMEN	2020 T7IS	Aggregator	35 GAS	51.04666	2089.283	0.383547		0.228011
SACRAMEN	2020 UBUS	Aggregator	35 GAS	153.9975	1582.006	0.003008		0.020347
SACRAMEN	2020 UBUS	Aggregator	35 DSL	2.868971	938.6469	0.029426		0.147542
SACRAMEN	2020 UBUS	Aggregator	35 NG	409.4994	1730.103	324.887	5.234522	0.007145 0.352693 0.011566
SACRAMEN	2020 All Other B	Aggregator	40 DSL	5667.335	995.8186	0.009328		0.156529
SACRAMEN	2020 LDA	Aggregator	40 GAS	3818001	254.6272	0.002925		0.00542
SACRAMEN	2020 LDA	Aggregator	40 DSL	32471.74	188.283	0.000786		0.029595
SACRAMEN	2020 LDT1	Aggregator	40 GAS	392139.1	295.7388	0.006205		0.009145
SACRAMEN	2020 LDT1	Aggregator	40 DSL	828.4118	418.6946	0.005205		0.065813
SACRAMEN	2020 LDT2	Aggregator	40 GAS	1311935	326.2025	0.004114		0.007951
SACRAMEN	2020 LDT2	Aggregator	40 DSL	6951.603	256.4231	0.000596		0.040306
SACRAMEN	2020 LHD1	Aggregator	40 GAS	8873.985	729.8847	0.00704		0.017326
SACRAMEN	2020 LHD1	Aggregator	40 DSL	18552.06	463.0899	0.004624		0.072791

SACRAMEN	2020 LHD2	Aggregator	40 GAS	1174.566	835.1847		0.005917		0.016828
SACRAMEN	2020 LHD2	Aggregator	40 DSL	6119.578	518.3984		0.003884		0.081485
SACRAMEN	2020 MCY	Aggregator	40 GAS	38534.38	189.9164		0.292524		0.064824
SACRAMEN	2020 MDV	Aggregator	40 GAS	924092.6	397.821		0.005817		0.010061
SACRAMEN	2020 MDV	Aggregator	40 DSL	18855.5	341.3382		0.000538		0.053654
SACRAMEN	2020 MH	Aggregator	40 GAS	3181.64	1540.742		0.014185		0.029519
SACRAMEN	2020 MH	Aggregator	40 DSL	989.3298	973.8935		0.003402		0.153083
SACRAMEN	2020 Motor Coa	Aggregator	40 DSL	202.2351	1429.461		0.008665		0.224691
SACRAMEN	2020 OBUS	Aggregator	40 GAS	3216.548	1547.979		0.015538		0.032611
SACRAMEN	2020 SBUS	Aggregator	40 GAS	623.9407	707.6101		0.00996		0.02549
SACRAMEN	2020 SBUS	Aggregator	40 DSL	1756.454	1067.291		0.003188		0.167763
SACRAMEN	2020 T6 Ag	Aggregator	40 DSL	5.659195	1046.853		0.019996		0.164551
SACRAMEN	2020 T6 CAIRP h	Aggregator	40 DSL	371.0421	837.0754		0.001597		0.131577
SACRAMEN	2020 T6 CAIRP s	Aggregator	40 DSL	53.14071	882.0878		0.002798		0.138652
SACRAMEN	2020 T6 instate (	Aggregator	40 DSL	541.93	973.1576		0.007036		0.152967
SACRAMEN	2020 T6 instate (	Aggregator	40 DSL	3975.779	945.4256		0.006975		0.148608
SACRAMEN	2020 T6 instate l	Aggregator	40 DSL	9456.148	906.4015		0.005278		0.142474
SACRAMEN	2020 T6 instate :	Aggregator	40 DSL	13607.21	946.7957		0.007534		0.148823
SACRAMEN	2020 T6 OOS he:	Aggregator	40 DSL	209.5979	836.8724		0.001575		0.131545
SACRAMEN	2020 T6 OOS sm	Aggregator	40 DSL	29.31487	886.4078		0.003026		0.139331
SACRAMEN	2020 T6 Public	Aggregator	40 DSL	8024.25	1017.198		0.001927		0.159889
SACRAMEN	2020 T6 utility	Aggregator	40 DSL	325.9406	912.2845		0.000728		0.143398
SACRAMEN	2020 T6TS	Aggregator	40 GAS	12062.83	1534.9		0.017292		0.031303
SACRAMEN	2020 T7 Ag	Aggregator	40 DSL	3.81833	1628.585		0.038802		0.255991
SACRAMEN	2020 T7 CAIRP	Aggregator	40 DSL	2217.996	1256.491		0.002799		0.197503
SACRAMEN	2020 T7 CAIRP c	Aggregator	40 DSL	399.9393	1292.314		0.002733		0.203134
SACRAMEN	2020 T7 NNOOS	Aggregator	40 DSL	2704.116	1201.965		0.002913		0.188932
SACRAMEN	2020 T7 NOOS	Aggregator	40 DSL	871.4389	1256.575		0.002701		0.197516
SACRAMEN	2020 T7 other pr	Aggregator	40 DSL	175.2499	1495.78		0.005513		0.235116
SACRAMEN	2020 T7 POAK	Aggregator	40 DSL	511.2144	1545.235		0.006591		0.242889
SACRAMEN	2020 T7 Public	Aggregator	40 DSL	10281.62	1538.511		0.003062		0.241832
SACRAMEN	2020 T7 Single	Aggregator	40 DSL	4335.248	1384.551		0.007342		0.217632
SACRAMEN	2020 T7 single cr	Aggregator	40 DSL	992.1759	1439.251		0.007708		0.22623
SACRAMEN	2020 T7 SWCV	Aggregator	40 DSL	2233.786	3432.512		0.000705		0.539543
SACRAMEN	2020 T7 SWCV	Aggregator	40 NG	1020.07	2941.894		2.205876		0.599724
SACRAMEN	2020 T7 tractor (	Aggregator	40 DSL	3091.315	1358.462		0.007304		0.213531
SACRAMEN	2020 T7 tractor (	Aggregator	40 DSL	818.4578	1437.639		0.008452		0.225977
SACRAMEN	2020 T7 utility	Aggregator	40 DSL	55.77105	1504.916		0.002188		0.236552
SACRAMEN	2020 T7IS	Aggregator	40 GAS	44.49859	2020.299		0.345319		0.225116
SACRAMEN	2020 UBUS	Aggregator	40 GAS	202.8417	1539.243		0.002621		0.019652
SACRAMEN	2020 UBUS	Aggregator	40 DSL	3.822301	888.5468		0.025235		0.139667
SACRAMEN	2020 UBUS	Aggregator	40 NG	545.5718	1652.962	306.6984	4.912557	0.006221	0.336967 0.009916
SACRAMEN	2020 All Other B	Aggregator	45 DSL	3592.085	950.5972		0.008155		0.149421
SACRAMEN	2020 LDA	Aggregator	45 GAS	1479417	255.4464		0.002676		0.00528
SACRAMEN	2020 LDA	Aggregator	45 DSL	12582.3	181.8669		0.000713		0.028587
SACRAMEN	2020 LDT1	Aggregator	45 GAS	151947.9	296.6278		0.005669		0.008957
SACRAMEN	2020 LDT1	Aggregator	45 DSL	320.9969	403.6926		0.004966		0.063455
SACRAMEN	2020 LDT2	Aggregator	45 GAS	508354.8	327.2431		0.003761		0.00776
SACRAMEN	2020 LDT2	Aggregator	45 DSL	2693.64	247.2354		0.000517		0.038862
SACRAMEN	2020 LHD1	Aggregator	45 GAS	10924.66	732.4129		0.00663		0.016763
SACRAMEN	2020 LHD1	Aggregator	45 DSL	20023.77	451.7077		0.004341		0.071002
SACRAMEN	2020 LHD2	Aggregator	45 GAS	1445.995	838.0977		0.005571		0.016269
SACRAMEN	2020 LHD2	Aggregator	45 DSL	6605.037	498.3082		0.003616		0.078327
SACRAMEN	2020 MCY	Aggregator	45 GAS	14931.48	189.7249		0.274369		0.0652
SACRAMEN	2020 MDV	Aggregator	45 GAS	358071.7	399.1025		0.005345		0.009848
SACRAMEN	2020 MDV	Aggregator	45 DSL	7306.216	328.4887		0.000473		0.051634
SACRAMEN	2020 MH	Aggregator	45 GAS	2901.439	1546.076		0.013229		0.028849
SACRAMEN	2020 MH	Aggregator	45 DSL	810.1299	939.3661		0.003001		0.147655
SACRAMEN	2020 Motor Coa	Aggregator	45 DSL	269.405	1361.173		0.007479		0.213957
SACRAMEN	2020 OBUS	Aggregator	45 GAS	2933.272	1553.186		0.014334		0.031697
SACRAMEN	2020 SBUS	Aggregator	45 GAS	299.3517	709.9246		0.009106		0.024808
SACRAMEN	2020 SBUS	Aggregator	45 DSL	1477.339	1024.491		0.002758		0.161036
SACRAMEN	2020 T6 Ag	Aggregator	45 DSL	6.972798	1001.982		0.017952		0.157498
SACRAMEN	2020 T6 CAIRP h	Aggregator	45 DSL	474.0079	791.8635		0.001389		0.12447
SACRAMEN	2020 T6 CAIRP s	Aggregator	45 DSL	67.88749	838.5204		0.002432		0.131804
SACRAMEN	2020 T6 instate (	Aggregator	45 DSL	652.3047	929.1107		0.006132		0.146043
SACRAMEN	2020 T6 instate (	Aggregator	45 DSL	4785.525	901.1362		0.006104		0.141646
SACRAMEN	2020 T6 instate l	Aggregator	45 DSL	6988.012	859.3854		0.004596		0.135083
SACRAMEN	2020 T6 instate :	Aggregator	45 DSL	10055.61	902.729		0.0066		0.141896
SACRAMEN	2020 T6 OOS he:	Aggregator	45 DSL	267.7623	791.5637		0.001368		0.124423
SACRAMEN	2020 T6 OOS sm	Aggregator	45 DSL	37.44987	842.7601		0.002632		0.13247
SACRAMEN	2020 T6 Public	Aggregator	45 DSL	7430.81	974.305		0.001686		0.153147
SACRAMEN	2020 T6 utility	Aggregator	45 DSL	335.2786	867.3993		0.000601		0.136343
SACRAMEN	2020 T6TS	Aggregator	45 GAS	11000.48	1540.064		0.016026		0.030476
SACRAMEN	2020 T7 Ag	Aggregator	45 DSL	4.783871	1559.654		0.03493		0.245156
SACRAMEN	2020 T7 CAIRP	Aggregator	45 DSL	2954.676	1186.713		0.002378		0.186535
SACRAMEN	2020 T7 CAIRP c	Aggregator	45 DSL	485.9568	1227.406		0.00232		0.192931
SACRAMEN	2020 T7 NNOOS	Aggregator	45 DSL	3602.255	1137.112		0.002537		0.178738
SACRAMEN	2020 T7 NOOS	Aggregator	45 DSL	1160.876	1186.707		0.002291		0.186534
SACRAMEN	2020 T7 other pr	Aggregator	45 DSL	183.4138	1422.559		0.004283		0.223606
SACRAMEN	2020 T7 POAK	Aggregator	45 DSL	535.0288	1470.282		0.005088		0.231108
SACRAMEN	2020 T7 Public	Aggregator	45 DSL	10786.69	1473.522		0.002623		0.231617
SACRAMEN	2020 T7 Single	Aggregator	45 DSL	3474.103	1319.994		0.006378		0.207485
SACRAMEN	2020 T7 single cr	Aggregator	45 DSL	1205.569	1373.145		0.006667		0.215839
SACRAMEN	2020 T7 SWCV	Aggregator	45 DSL	2471.737	3291.825		0.000619		0.517429
SACRAMEN	2020 T7 SWCV	Aggregator	45 NG	1128.732	2835.648		1.702296		0.578065
SACRAMEN	2020 T7 tractor	Aggregator	45 DSL	3643.434	1285.501		0.006213		0.202063
SACRAMEN	2020 T7 tractor (	Aggregator	45 DSL	994.4886	1369.405		0.007168		0.215251
SACRAMEN	2020 T7 utility	Aggregator	45 DSL	55.91949	1434.019		0.001749		0.225408
SACRAMEN	2020 T7IS	Aggregator	45 GAS	47.08426	2027.725		0.327572		0.2262
SACRAMEN	2020 UBUS	Aggregator	45 GAS	170.6389	1541.498		0.002397		0.018966
SACRAMEN	2020 UBUS	Aggregator	45 DSL	3.200838	854.2901		0.021974		0.134283
SACRAMEN	2020 UBUS	Aggregator	45 NG	456.8681	1584.92	328.2387	4.628598	0.006595	0.323096 0.013048
SACRAMEN	2020 All Other B	Aggregator	50 DSL	1060.476	931.4801		0.007692		0.146416

SACRAMEN	2020 LDA	Aggregator	50 GAS	1483076	263.4574		0.002589		0.005207
SACRAMEN	2020 LDA	Aggregator	50 DSL	12613.43	182.3299		0.000672		0.02866
SACRAMEN	2020 LDT1	Aggregator	50 GAS	152323.7	305.7697		0.005453		0.008909
SACRAMEN	2020 LDT1	Aggregator	50 DSL	321.7909	404.3632		0.004958		0.06356
SACRAMEN	2020 LDT2	Aggregator	50 GAS	509612.2	337.3411		0.003628		0.007677
SACRAMEN	2020 LDT2	Aggregator	50 DSL	2700.302	247.6461		0.000461		0.038927
SACRAMEN	2020 LHD1	Aggregator	50 GAS	80666.15	753.9016		0.006645		0.01617
SACRAMEN	2020 LHD1	Aggregator	50 DSL	77318.14	473.5552		0.004258		0.074436
SACRAMEN	2020 LHD2	Aggregator	50 GAS	10677.02	862.7		0.005579		0.015685
SACRAMEN	2020 LHD2	Aggregator	50 DSL	25504.14	516.6617		0.003515		0.081212
SACRAMEN	2020 MCY	Aggregator	50 GAS	14968.41	194.8757		0.269555		0.065866
SACRAMEN	2020 MDV	Aggregator	50 GAS	358957.4	411.3404		0.005177		0.00977
SACRAMEN	2020 MDV	Aggregator	50 DSL	7324.288	330.1347		0.000429		0.051893
SACRAMEN	2020 MH	Aggregator	50 GAS	2823.696	1591.379		0.012865		0.02904
SACRAMEN	2020 MH	Aggregator	50 DSL	906.6671	916.8353		0.002812		0.144114
SACRAMEN	2020 Motor Coa	Aggregator	50 DSL	396.5336	1336.513		0.006959		0.210081
SACRAMEN	2020 OBUS	Aggregator	50 GAS	2854.677	1598.481		0.013817		0.031759
SACRAMEN	2020 SBUS	Aggregator	50 GAS	149.9244	730.569		0.008815		0.024378
SACRAMEN	2020 SBUS	Aggregator	50 DSL	2521.674	1000.509		0.002569		0.157266
SACRAMEN	2020 T6 Ag	Aggregator	50 DSL	9.238649	983.1171		0.017152		0.154532
SACRAMEN	2020 T6 CAIRP h	Aggregator	50 DSL	633.813	776.6985		0.001271		0.122086
SACRAMEN	2020 T6 CAIRP s	Aggregator	50 DSL	90.77479	825.0492		0.002214		0.129686
SACRAMEN	2020 T6 instate r	Aggregator	50 DSL	730.6277	910.0678		0.005677		0.14305
SACRAMEN	2020 T6 instate r	Aggregator	50 DSL	5360.128	884.4563		0.005633		0.139024
SACRAMEN	2020 T6 instate l	Aggregator	50 DSL	14432.33	838.9149		0.004288		0.131866
SACRAMEN	2020 T6 instate :	Aggregator	50 DSL	20767.85	885.866		0.006096		0.139246
SACRAMEN	2020 T6 OOS he:	Aggregator	50 DSL	358.0345	776.4031		0.001243		0.12204
SACRAMEN	2020 T6 OOS sm	Aggregator	50 DSL	50.07557	829.0863		0.002398		0.130321
SACRAMEN	2020 T6 Public	Aggregator	50 DSL	5346.474	953.306		0.00158		0.149846
SACRAMEN	2020 T6 utility	Aggregator	50 DSL	310.4293	851.9185		0.000524		0.13391
SACRAMEN	2020 T6TS	Aggregator	50 GAS	10705.73	1584.985		0.0155		0.030578
SACRAMEN	2020 T7 Ag	Aggregator	50 DSL	6.252701	1531.377		0.033297		0.240711
SACRAMEN	2020 T7 CAIRP	Aggregator	50 DSL	4348.948	1161.401		0.002153		0.182556
SACRAMEN	2020 T7 CAIRP c	Aggregator	50 DSL	488.3447	1208.043		0.002096		0.189887
SACRAMEN	2020 T7 NNOOS	Aggregator	50 DSL	5302.111	1115.83		0.002327		0.175393
SACRAMEN	2020 T7 NOOS	Aggregator	50 DSL	1708.679	1161.347		0.002062		0.182548
SACRAMEN	2020 T7 other pr	Aggregator	50 DSL	186.4126	1388.246		0.003449		0.218213
SACRAMEN	2020 T7 POAK	Aggregator	50 DSL	543.7765	1431.808		0.004055		0.22506
SACRAMEN	2020 T7 Public	Aggregator	50 DSL	7063.342	1441.142		0.002373		0.226527
SACRAMEN	2020 T7 Single	Aggregator	50 DSL	8212.534	1295.432		0.005874		0.203624
SACRAMEN	2020 T7 single cr	Aggregator	50 DSL	1211.493	1346.31		0.006142		0.211621
SACRAMEN	2020 T7 SWCV	Aggregator	50 DSL	2287.324	3218.763		0.00059		0.505945
SACRAMEN	2020 T7 SWCV	Aggregator	50 NG	1044.519	2746.09		1.329957		0.559808
SACRAMEN	2020 T7 tractor	Aggregator	50 DSL	5535.331	1253.815		0.005648		0.197082
SACRAMEN	2020 T7 tractor r	Aggregator	50 DSL	999.3754	1341.736		0.006464		0.210902
SACRAMEN	2020 T7 utility	Aggregator	50 DSL	53.56537	1402.627		0.00146		0.220473
SACRAMEN	2020 T7IS	Aggregator	50 GAS	49.26347	2089.116		0.324272		0.227695
SACRAMEN	2020 UBUS	Aggregator	50 GAS	166.4431	1561.788		0.002259		0.018553
SACRAMEN	2020 UBUS	Aggregator	50 DSL	3.012364	835.6523		0.019442		0.131353
SACRAMEN	2020 UBUS	Aggregator	50 NG	429.9664	1524.055	356.7186	4.374616	0.006103	0.310689 0.015666
SACRAMEN	2020 All Other B	Aggregator	55 DSL	262.547	938.2534		0.007917		0.14748
SACRAMEN	2020 LDA	Aggregator	55 GAS	2698952	274.194		0.00263		0.005219
SACRAMEN	2020 LDA	Aggregator	55 DSL	22954.33	190.7939		0.000659		0.02999
SACRAMEN	2020 LDT1	Aggregator	55 GAS	277203.8	318.1653		0.005487		0.009036
SACRAMEN	2020 LDT1	Aggregator	55 DSL	585.6058	422.7947		0.005179		0.066457
SACRAMEN	2020 LDT2	Aggregator	55 GAS	927409.3	351.0784		0.00367		0.00773
SACRAMEN	2020 LDT2	Aggregator	55 DSL	4914.1	258.9341		0.000423		0.040701
SACRAMEN	2020 LHD1	Aggregator	55 GAS	22187	784.8238		0.006656		0.017111
SACRAMEN	2020 LHD1	Aggregator	55 DSL	46561.69	494.8484		0.004367		0.077783
SACRAMEN	2020 LHD2	Aggregator	55 GAS	2936.686	898.1067		0.005595		0.016588
SACRAMEN	2020 LHD2	Aggregator	55 DSL	15358.83	534.7698		0.00357		0.084058
SACRAMEN	2020 MCY	Aggregator	55 GAS	27240.02	203.6829		0.278195		0.067114
SACRAMEN	2020 MDV	Aggregator	55 GAS	653242.7	428.1206		0.005256		0.009864
SACRAMEN	2020 MDV	Aggregator	55 DSL	13328.98	348.4075		0.000401		0.054765
SACRAMEN	2020 MH	Aggregator	55 GAS	3693.137	1656.767		0.013206		0.0295
SACRAMEN	2020 MH	Aggregator	55 DSL	1328.639	906.3014		0.002827		0.142458
SACRAMEN	2020 Motor Coa	Aggregator	55 DSL	951.9618	1355.2		0.007062		0.213019
SACRAMEN	2020 OBUS	Aggregator	55 GAS	3733.657	1663.884		0.014084		0.032161
SACRAMEN	2020 SBUS	Aggregator	55 GAS	223.1529	760.3547		0.008861		0.02504
SACRAMEN	2020 SBUS	Aggregator	55 DSL	6388.259	995.1191		0.002606		0.156419
SACRAMEN	2020 T6 Ag	Aggregator	55 DSL	25.21333	990.2589		0.017594		0.155655
SACRAMEN	2020 T6 CAIRP h	Aggregator	55 DSL	1490.134	794.4838		0.001239		0.124882
SACRAMEN	2020 T6 CAIRP s	Aggregator	55 DSL	213.4172	841.5699		0.002139		0.132283
SACRAMEN	2020 T6 instate r	Aggregator	55 DSL	889.3296	915.806		0.005655		0.143952
SACRAMEN	2020 T6 instate r	Aggregator	55 DSL	6524.418	895.2323		0.005551		0.140718
SACRAMEN	2020 T6 instate l	Aggregator	55 DSL	36065.21	848.7304		0.00434		0.133409
SACRAMEN	2020 T6 instate :	Aggregator	55 DSL	51897.14	896.0552		0.006012		0.140847
SACRAMEN	2020 T6 OOS he:	Aggregator	55 DSL	841.7616	794.3204		0.001195		0.124856
SACRAMEN	2020 T6 OOS sm	Aggregator	55 DSL	117.7308	845.2786		0.002316		0.132866
SACRAMEN	2020 T6 Public	Aggregator	55 DSL	6294.918	954.0387		0.001602		0.149962
SACRAMEN	2020 T6 utility	Aggregator	55 DSL	482.8586	865.6326		0.00049		0.136065
SACRAMEN	2020 T6TS	Aggregator	55 GAS	14002.12	1649.87		0.015843		0.030994
SACRAMEN	2020 T7 Ag	Aggregator	55 DSL	17.90489	1543.771		0.033827		0.242659
SACRAMEN	2020 T7 CAIRP	Aggregator	55 DSL	10440.56	1186.369		0.002106		0.186481
SACRAMEN	2020 T7 CAIRP c	Aggregator	55 DSL	595.8233	1234.041		0.002043		0.193974
SACRAMEN	2020 T7 NNOOS	Aggregator	55 DSL	12728.83	1142.128		0.002276		0.179527
SACRAMEN	2020 T7 NOOS	Aggregator	55 DSL	4102.04	1186.306		0.001997		0.186471
SACRAMEN	2020 T7 other pr	Aggregator	55 DSL	163.4588	1391.885		0.002933		0.218785
SACRAMEN	2020 T7 POAK	Aggregator	55 DSL	476.8189	1428.643		0.003396		0.224563
SACRAMEN	2020 T7 Public	Aggregator	55 DSL	7048.374	1441.014		0.002293		0.226507
SACRAMEN	2020 T7 Single	Aggregator	55 DSL	21140.31	1310.628		0.005806		0.206013
SACRAMEN	2020 T7 single cr	Aggregator	55 DSL	1478.128	1358.44		0.006101		0.213528
SACRAMEN	2020 T7 SWCV	Aggregator	55 DSL	1821.989	3212.603		0.000615		0.504976
SACRAMEN	2020 T7 SWCV	Aggregator	55 NG	832.0208	2670.03		1.058276		0.544303

SACRAMEN	2020 T7 tractor	Aggregator	55	DSL	12427.05	1269.76		0.005564		0.199589
SACRAMEN	2020 T7 tractor r	Aggregator	55	DSL	1219.325	1354.173		0.006291		0.212857
SACRAMEN	2020 T7 utility	Aggregator	55	DSL	83.66508	1410.123		0.001296		0.221652
SACRAMEN	2020 T7IS	Aggregator	55	GAS	72.31512	2183.344		0.335975		0.230117
SACRAMEN	2020 UBUS	Aggregator	55	GAS	270.6779	1653.077		0.002333		0.019224
SACRAMEN	2020 UBUS	Aggregator	55	DSL	5.085455	832.4836		0.017496		0.130855
SACRAMEN	2020 UBUS	Aggregator	55	NG	725.8667	1468.996	353.0845	4.144883	0.005801	0.299464 0.014529
SACRAMEN	2020 All Other B	Aggregator	60	DSL	19.28749	971.762		0.008315		0.152747
SACRAMEN	2020 LDA	Aggregator	60	GAS	2083556	283.224		0.002784		0.00539
SACRAMEN	2020 LDA	Aggregator	60	DSL	17720.45	206.8435		0.000687		0.032513
SACRAMEN	2020 LDT1	Aggregator	60	GAS	213997.7	328.901		0.005743		0.009487
SACRAMEN	2020 LDT1	Aggregator	60	DSL	452.08	457.9732		0.005665		0.071987
SACRAMEN	2020 LDT2	Aggregator	60	GAS	715947.9	363.1513		0.003866		0.008035
SACRAMEN	2020 LDT2	Aggregator	60	DSL	3793.621	280.4787		0.000415		0.044087
SACRAMEN	2020 MCY	Aggregator	60	GAS	21028.94	215.4986		0.304497		0.069788
SACRAMEN	2020 MDV	Aggregator	60	GAS	504294.9	443.2185		0.005572		0.010282
SACRAMEN	2020 MDV	Aggregator	60	DSL	10289.8	377.2552		0.000402		0.059299
SACRAMEN	2020 MH	Aggregator	60	GAS	4261.712	1724.156		0.014324		0.030084
SACRAMEN	2020 MH	Aggregator	60	DSL	1596.582	907.7642		0.003061		0.142688
SACRAMEN	2020 Motor Coa	Aggregator	60	DSL	3473.751	1418.585		0.007424		0.222982
SACRAMEN	2020 OBUS	Aggregator	60	GAS	4308.47	1731.203		0.015198		0.032747
SACRAMEN	2020 SBUS	Aggregator	60	GAS	124.1951	791.0278		0.009548		0.025398
SACRAMEN	2020 SBUS	Aggregator	60	DSL	6302.928	1007.992		0.002722		0.158442
SACRAMEN	2020 T6 Ag	Aggregator	60	DSL	117.9324	1022.074		0.018299		0.160656
SACRAMEN	2020 T6 CAIRP h	Aggregator	60	DSL	5179.155	842.3262		0.001279		0.132402
SACRAMEN	2020 T6 CAIRP s	Aggregator	60	DSL	741.7594	888.7476		0.002175		0.139699
SACRAMEN	2020 T6 instate r	Aggregator	60	DSL	2825.336	947.3253		0.005828		0.148906
SACRAMEN	2020 T6 instate r	Aggregator	60	DSL	20727.61	934.2008		0.005676		0.146843
SACRAMEN	2020 T6 instate l	Aggregator	60	DSL	24492.94	885.4682		0.004528		0.139183
SACRAMEN	2020 T6 instate :	Aggregator	60	DSL	35244.86	933.9703		0.006147		0.146807
SACRAMEN	2020 T6 OOS he	Aggregator	60	DSL	2925.652	842.418		0.001223		0.132416
SACRAMEN	2020 T6 OOS sm	Aggregator	60	DSL	409.1887	892.0145		0.002355		0.140212
SACRAMEN	2020 T6 Public	Aggregator	60	DSL	7230.533	976.4078		0.001671		0.153478
SACRAMEN	2020 T6 utility	Aggregator	60	DSL	326.0121	910.0925		0.000511		0.143054
SACRAMEN	2020 T6TS	Aggregator	60	GAS	16157.8	1716.7		0.017134		0.031574
SACRAMEN	2020 T7 Ag	Aggregator	60	DSL	91.28585	1592.882		0.035059		0.250379
SACRAMEN	2020 T7 CAIRP	Aggregator	60	DSL	38098.07	1256.205		0.002221		0.197458
SACRAMEN	2020 T7 CAIRP c	Aggregator	60	DSL	2186.938	1306.745		0.002151		0.205402
SACRAMEN	2020 T7 NNOOS	Aggregator	60	DSL	46448.06	1211.943		0.002367		0.190501
SACRAMEN	2020 T7 NOOS	Aggregator	60	DSL	14968.53	1256.257		0.002096		0.197466
SACRAMEN	2020 T7 other pr	Aggregator	60	DSL	107.8876	1441.364		0.002887		0.226562
SACRAMEN	2020 T7 POAK	Aggregator	60	DSL	314.7145	1470.427		0.003299		0.231131
SACRAMEN	2020 T7 Public	Aggregator	60	DSL	8264.278	1473.013		0.002341		0.231537
SACRAMEN	2020 T7 Single	Aggregator	60	DSL	15242.83	1366.463		0.005986		0.214789
SACRAMEN	2020 T7 single cr	Aggregator	60	DSL	5425.39	1410.585		0.006318		0.221724
SACRAMEN	2020 T7 SWCV	Aggregator	60	DSL	2634.896	3270.569		0.0007		0.514088
SACRAMEN	2020 T7 SWCV	Aggregator	60	NG	1203.239	2636.334		0.952888		0.537434
SACRAMEN	2020 T7 tractor	Aggregator	60	DSL	39125.1	1328.192		0.005787		0.208773
SACRAMEN	2020 T7 tractor r	Aggregator	60	DSL	4475.469	1409.647		0.006481		0.221577
SACRAMEN	2020 T7 utility	Aggregator	60	DSL	62.92489	1460.846		0.001292		0.229625
SACRAMEN	2020 T7IS	Aggregator	60	GAS	17.8475	2293.654		0.367492		0.237986
SACRAMEN	2020 UBUS	Aggregator	60	GAS	407.0566	1725.121		0.002513		0.019687
SACRAMEN	2020 UBUS	Aggregator	60	DSL	7.697544	845.2257		0.016434		0.132858
SACRAMEN	2020 UBUS	Aggregator	60	NG	1098.7	1418.736	397.2554	3.935202	0.006711	0.289219 0.021115
SACRAMEN	2020 All Other B	Aggregator	65	DSL	0.009184	1028.815		0.008362		0.161715
SACRAMEN	2020 LDA	Aggregator	65	GAS	305446.6	294.1142		0.003178		0.005561
SACRAMEN	2020 LDA	Aggregator	65	DSL	2597.795	232.5339		0.000756		0.036551
SACRAMEN	2020 LDT1	Aggregator	65	GAS	31371.79	341.1753		0.006451		0.009981
SACRAMEN	2020 LDT1	Aggregator	65	DSL	66.27436	514.407		0.006488		0.080858
SACRAMEN	2020 LDT2	Aggregator	65	GAS	104957.1	376.5184		0.004382		0.008355
SACRAMEN	2020 LDT2	Aggregator	65	DSL	556.1401	315.0407		0.000433		0.04952
SACRAMEN	2020 MCY	Aggregator	65	GAS	3082.816	228.3892		0.345241		0.071607
SACRAMEN	2020 MDV	Aggregator	65	GAS	73928.98	459.2358		0.006324		0.010719
SACRAMEN	2020 MDV	Aggregator	65	DSL	1508.472	423.6047		0.000427		0.066585
SACRAMEN	2020 MH	Aggregator	65	GAS	665.9464	1777.324		0.016454		0.0307
SACRAMEN	2020 MH	Aggregator	65	DSL	251.2566	921.2238		0.003506		0.144804
SACRAMEN	2020 Motor Coa	Aggregator	65	DSL	6364.407	1524.186		0.00756		0.239581
SACRAMEN	2020 OBUS	Aggregator	65	GAS	673.253	1784.083		0.0174		0.033428
SACRAMEN	2020 SBUS	Aggregator	65	DSL	2367.041	1032.912		0.002746		0.162359
SACRAMEN	2020 T6 Ag	Aggregator	65	DSL	85.12709	1073.453		0.018338		0.168732
SACRAMEN	2020 T6 CAIRP h	Aggregator	65	DSL	9990.188	919.6193		0.00134		0.144551
SACRAMEN	2020 T6 CAIRP s	Aggregator	65	DSL	1430.796	965.5863		0.002236		0.151777
SACRAMEN	2020 T6 instate r	Aggregator	65	DSL	1658.419	1001.335		0.005879		0.157396
SACRAMEN	2020 T6 instate r	Aggregator	65	DSL	12166.71	998.9033		0.005734		0.157014
SACRAMEN	2020 T6 instate l	Aggregator	65	DSL	9532.18	947.0163		0.004589		0.148858
SACRAMEN	2020 T6 instate :	Aggregator	65	DSL	13716.62	996.9812		0.006202		0.156712
SACRAMEN	2020 T6 OOS he	Aggregator	65	DSL	5643.356	920.1192		0.001284		0.14463
SACRAMEN	2020 T6 OOS sm	Aggregator	65	DSL	789.2933	968.2162		0.002415		0.15219
SACRAMEN	2020 T6 Public	Aggregator	65	DSL	3076.145	1015.219		0.001701		0.159578
SACRAMEN	2020 T6 utility	Aggregator	65	DSL	2.469169	984.1846		0.000571		0.1547
SACRAMEN	2020 T6TS	Aggregator	65	GAS	2524.861	1769.288		0.019652		0.032229
SACRAMEN	2020 T7 Ag	Aggregator	65	DSL	58.0509	1672.221		0.035144		0.26285
SACRAMEN	2020 T7 CAIRP	Aggregator	65	DSL	69801.09	1370.146		0.002412		0.215368
SACRAMEN	2020 T7 CAIRP c	Aggregator	65	DSL	1072.206	1425.364		0.002339		0.224047
SACRAMEN	2020 T7 NNOOS	Aggregator	65	DSL	85099.46	1324.459		0.002523		0.208186
SACRAMEN	2020 T7 NOOS	Aggregator	65	DSL	27424.48	1370.44		0.002288		0.215414
SACRAMEN	2020 T7 other pr	Aggregator	65	DSL	42.43732	1534.713		0.003183		0.241236
SACRAMEN	2020 T7 POAK	Aggregator	65	DSL	123.7922	1554.748		0.003606		0.244385
SACRAMEN	2020 T7 Public	Aggregator	65	DSL	3694.321	1530.547		0.002401		0.240581
SACRAMEN	2020 T7 Single	Aggregator	65	DSL	4873.998	1459.465		0.00609		0.229408
SACRAMEN	2020 T7 single cr	Aggregator	65	DSL	2659.946	1498.854		0.006422		0.235599
SACRAMEN	2020 T7 SWCV	Aggregator	65	DSL	503.8436	3376.963		0.000839		0.530812
SACRAMEN	2020 T7 SWCV	Aggregator	65	NG	230.0828	2636.334		0.952888		0.537434
SACRAMEN	2020 T7 tractor	Aggregator	65	DSL	27048.85	1426.978		0.005977		0.224301

SACRAMEN	2020 T7 tractor r	Aggregator	65 DSL	2194.221	1505.316		0.006663	0.236615	
SACRAMEN	2020 T7 utility	Aggregator	65 DSL	0.610509	1551.357		0.001388	0.243852	
SACRAMEN	2020 T7IS	Aggregator	65 GAS	9.565889	2404.305		0.421087	0.247576	
SACRAMEN	2020 UBUS	Aggregator	65 GAS	61.26117	1777.813		0.002865	0.020161	
SACRAMEN	2020 UBUS	Aggregator	65 DSL	1.158464	870.3654		0.015935	0.136809	
SACRAMEN	2020 UBUS	Aggregator	65 NG	165.3521	1372.505	684.2944	3.742349	0.006177	0.279794 0.077676
SACRAMEN	2020 All Other B	Aggregator	70 DSL	0	0		0	0	
SACRAMEN	2020 LDA	Aggregator	70 GAS	80812.31	291.4329		0.003349	0.005822	
SACRAMEN	2020 LDA	Aggregator	70 DSL	687.3012	251.0999		0.000804	0.039469	
SACRAMEN	2020 LDT1	Aggregator	70 GAS	8300.066	338.8773		0.006754	0.010591	
SACRAMEN	2020 LDT1	Aggregator	70 DSL	17.53427	554.996		0.007062	0.087238	
SACRAMEN	2020 LDT2	Aggregator	70 GAS	27768.59	374.4646		0.004606	0.008796	
SACRAMEN	2020 LDT2	Aggregator	70 DSL	147.1385	339.8988		0.000446	0.053427	
SACRAMEN	2020 MCY	Aggregator	70 GAS	815.6236	236.7964		0.381443	0.074817	
SACRAMEN	2020 MDV	Aggregator	70 GAS	19559.46	457.657		0.006693	0.011302	
SACRAMEN	2020 MDV	Aggregator	70 DSL	399.0979	456.0175		0.000444	0.07168	
SACRAMEN	2020 Motor Coa	Aggregator	70 DSL	78.21524	1524.186		0.00766	0.239581	
SACRAMEN	2020 SBUS	Aggregator	70 DSL	206.603	1032.912		0.002761	0.162359	
SACRAMEN	2020 T6 Ag	Aggregator	70 DSL	0.39661	1073.453		0.018338	0.168732	
SACRAMEN	2020 T6 CAIRP h	Aggregator	70 DSL	119.6578	919.6193		0.0014	0.144551	
SACRAMEN	2020 T6 CAIRP s	Aggregator	70 DSL	17.13741	965.5863		0.002293	0.151777	
SACRAMEN	2020 T6 instate r	Aggregator	70 DSL	239.234	1001.335		0.005911	0.157396	
SACRAMEN	2020 T6 instate l	Aggregator	70 DSL	1755.1	998.9033		0.005772	0.157014	
SACRAMEN	2020 T6 instate l	Aggregator	70 DSL	813.3969	947.0163		0.004627	0.148858	
SACRAMEN	2020 T6 instate :	Aggregator	70 DSL	1170.463	996.9812		0.006241	0.156712	
SACRAMEN	2020 T6 OOS he	Aggregator	70 DSL	67.59347	920.1192		0.001345	0.14463	
SACRAMEN	2020 T6 OOS sm	Aggregator	70 DSL	9.453786	968.2162		0.002471	0.15219	
SACRAMEN	2020 T6 Public	Aggregator	70 DSL	1303.227	1015.219		0.001726	0.159578	
SACRAMEN	2020 T6 utility	Aggregator	70 DSL	0.000436	984.1846		0.000614	0.1547	
SACRAMEN	2020 T7 Ag	Aggregator	70 DSL	0.368127	1672.221		0.035144	0.26285	
SACRAMEN	2020 T7 CAIRP	Aggregator	70 DSL	857.8189	1370.146		0.00256	0.215368	
SACRAMEN	2020 T7 CAIRP c	Aggregator	70 DSL	239.391	1425.364		0.002487	0.224047	
SACRAMEN	2020 T7 NNOOS	Aggregator	70 DSL	1045.828	1324.459		0.002675	0.208186	
SACRAMEN	2020 T7 NOOS	Aggregator	70 DSL	337.0325	1370.44		0.002436	0.215414	
SACRAMEN	2020 T7 other pr	Aggregator	70 DSL	0.970046	1534.713		0.003244	0.241236	
SACRAMEN	2020 T7 POAK	Aggregator	70 DSL	2.829681	1554.748		0.003653	0.244385	
SACRAMEN	2020 T7 Public	Aggregator	70 DSL	2015.991	1530.547		0.002454	0.240581	
SACRAMEN	2020 T7 Single	Aggregator	70 DSL	425.4638	1459.465		0.006179	0.229408	
SACRAMEN	2020 T7 single cr	Aggregator	70 DSL	593.8852	1498.854		0.006494	0.235599	
SACRAMEN	2020 T7 SWCV	Aggregator	70 DSL	0	0		0	0	
SACRAMEN	2020 T7 SWCV	Aggregator	70 NG	0	0		0	0	
SACRAMEN	2020 T7 tractor	Aggregator	70 DSL	8170.031	1426.978		0.006068	0.224301	
SACRAMEN	2020 T7 tractor r	Aggregator	70 DSL	489.903	1505.316		0.006746	0.236615	
SACRAMEN	2020 T7 utility	Aggregator	70 DSL	0.001073	1551.357		0.001433	0.243852	
SACRAMEN	2020 UBUS	Aggregator	70 GAS	0	0		0	0	
SACRAMEN	2020 UBUS	Aggregator	70 DSL	0	0		0	0	
SACRAMEN	2020 UBUS	Aggregator	70 NG	0	0	457.3068	0	0.006277	0 0.033191
SACRAMEN	2020 All Other B	Aggregator	75 DSL	0	0		0	0	
SACRAMEN	2020 Motor Coa	Aggregator	75 DSL	0.024782	1524.186		0.007784	0.239581	
SACRAMEN	2020 SBUS	Aggregator	75 DSL	11.57575	1032.912		0.002779	0.162359	
SACRAMEN	2020 T6 Ag	Aggregator	75 DSL	0.00336	1073.453		0.018338	0.168732	
SACRAMEN	2020 T6 CAIRP h	Aggregator	75 DSL	0.044787	919.6193		0.001475	0.144551	
SACRAMEN	2020 T6 CAIRP s	Aggregator	75 DSL	0.006414	965.5863		0.002365	0.151777	
SACRAMEN	2020 T6 instate r	Aggregator	75 DSL	144.907	1001.335		0.005952	0.157396	
SACRAMEN	2020 T6 instate l	Aggregator	75 DSL	1063.086	998.9033		0.00582	0.157014	
SACRAMEN	2020 T6 instate l	Aggregator	75 DSL	24.24567	947.0163		0.004676	0.148858	
SACRAMEN	2020 T6 instate :	Aggregator	75 DSL	34.88906	996.9812		0.006289	0.156712	
SACRAMEN	2020 T6 OOS he	Aggregator	75 DSL	0.0253	920.1192		0.00142	0.14463	
SACRAMEN	2020 T6 OOS sm	Aggregator	75 DSL	0.003539	968.2162		0.002541	0.15219	
SACRAMEN	2020 T6 Public	Aggregator	75 DSL	317.223	1015.219		0.001757	0.159578	
SACRAMEN	2020 T6 utility	Aggregator	75 DSL	0	0		0	0	
SACRAMEN	2020 T7 Ag	Aggregator	75 DSL	0.006476	1672.221		0.035144	0.26285	
SACRAMEN	2020 T7 CAIRP	Aggregator	75 DSL	0.271795	1370.146		0.002744	0.215368	
SACRAMEN	2020 T7 CAIRP c	Aggregator	75 DSL	189.9381	1425.364		0.002672	0.224047	
SACRAMEN	2020 T7 NNOOS	Aggregator	75 DSL	0.331364	1324.459		0.002865	0.208186	
SACRAMEN	2020 T7 NOOS	Aggregator	75 DSL	0.106787	1370.44		0.002621	0.215414	
SACRAMEN	2020 T7 other pr	Aggregator	75 DSL	0	0		0	0	
SACRAMEN	2020 T7 POAK	Aggregator	75 DSL	0	0		0	0	
SACRAMEN	2020 T7 Public	Aggregator	75 DSL	588.9019	1530.547		0.00252	0.240581	
SACRAMEN	2020 T7 Single	Aggregator	75 DSL	15.74679	1459.465		0.00629	0.229408	
SACRAMEN	2020 T7 single cr	Aggregator	75 DSL	471.2014	1498.854		0.006585	0.235599	
SACRAMEN	2020 T7 SWCV	Aggregator	75 DSL	0	0		0	0	
SACRAMEN	2020 T7 SWCV	Aggregator	75 NG	0	0		0	0	
SACRAMEN	2020 T7 tractor	Aggregator	75 DSL	416.3226	1426.978		0.006182	0.224301	
SACRAMEN	2020 T7 tractor r	Aggregator	75 DSL	388.6997	1505.316		0.00685	0.236615	
SACRAMEN	2020 T7 utility	Aggregator	75 DSL	0	0		0	0	
SACRAMEN	2020 UBUS	Aggregator	75 GAS	0	0		0	0	
SACRAMEN	2020 UBUS	Aggregator	75 DSL	0	0		0	0	
SACRAMEN	2020 UBUS	Aggregator	75 NG	0	0		0	0	
SACRAMEN	2020 All Other B	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 Motor Coa	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 SBUS	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 T6 Ag	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 T6 CAIRP h	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 T6 CAIRP s	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 T6 instate r	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 T6 instate l	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 T6 instate l	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 T6 instate :	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 T6 OOS he	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 T6 OOS sm	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 T6 Public	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 T6 utility	Aggregator	80 DSL	0	0		0	0	
SACRAMEN	2020 T7 Ag	Aggregator	80 DSL	0	0		0	0	

SACRAMEN	2020 T7 CAIRP	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 T7 CAIRP c	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 T7 NNOOS	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 T7 NOOS	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 T7 other pr	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 T7 POAK	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 T7 Public	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 T7 Single	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 T7 single cr	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 T7 SWCV	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 T7 SWCV	Aggregator	80 NG	0	0	0	0
SACRAMEN	2020 T7 tractor	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 T7 tractor r	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 T7 utility	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 UBUS	Aggregator	80 GAS	0	0	0	0
SACRAMEN	2020 UBUS	Aggregator	80 DSL	0	0	0	0
SACRAMEN	2020 UBUS	Aggregator	80 NG	0	0	0	0
SACRAMEN	2020 All Other B	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 Motor Coa	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 SBUS	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T6 Ag	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T6 CAIRP h	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T6 CAIRP s	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T6 instate r	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T6 instate r	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T6 instate l	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T6 instate l	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T6 instate :	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T6 OOS he	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T6 OOS sm	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T6 Public	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T6 utility	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 Ag	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 CAIRP	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 CAIRP c	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 NNOOS	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 NOOS	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 other pr	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 POAK	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 Public	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 Single	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 single cr	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 SWCV	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 SWCV	Aggregator	85 NG	0	0	0	0
SACRAMEN	2020 T7 tractor	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 tractor r	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 T7 utility	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 UBUS	Aggregator	85 GAS	0	0	0	0
SACRAMEN	2020 UBUS	Aggregator	85 DSL	0	0	0	0
SACRAMEN	2020 UBUS	Aggregator	85 NG	0	0	0	0
SACRAMEN	2020 All Other B	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 Motor Coa	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 SBUS	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T6 Ag	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T6 CAIRP h	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T6 CAIRP s	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T6 instate r	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T6 instate r	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T6 instate l	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T6 instate l	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T6 instate :	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T6 OOS he	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T6 OOS sm	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T6 Public	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T6 utility	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 Ag	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 CAIRP	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 CAIRP c	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 NNOOS	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 NOOS	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 other pr	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 POAK	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 Public	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 Single	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 single cr	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 SWCV	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 SWCV	Aggregator	90 NG	0	0	0	0
SACRAMEN	2020 T7 tractor	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 tractor r	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 T7 utility	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 UBUS	Aggregator	90 GAS	0	0	0	0
SACRAMEN	2020 UBUS	Aggregator	90 DSL	0	0	0	0
SACRAMEN	2020 UBUS	Aggregator	90 NG	0	0	0	0

Sac County GHG Thresholds - 2030 and 2032

Emissions Source	Metric	2030	2032
residential	per capita	0.78	0.73
commercial	per 1000 sf	4.59	4.28
Transportation	per capita	1.57	1.47
Trucks	per 100 VMT	0.08	0.07

State GHG Reduction Targets

Milestone Year	Statewide Existing and Target Emissions (MMTCO ₂ e)	Target Percent Reduction from 2030
1990	431	NA
2015	440	NA
2020	431	NA
2030	259	NA
2032	241	7%
2040	172	33%
2050	86	67%

Notes: CARB state inventory current through 2015. 2040

Source: California GHG Inventory. CARB 2014 and 2016

Mather South RPS Adjusted Operational - Sacramento County, Annual

**Mather South RPS Adjusted Operational
Sacramento County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	415.25	1000sqft	30.18	415,250.00	0
Research & Development	149.00	1000sqft	11.72	149,000.00	0
Elementary School	1,500.00	Student	22.19	125,405.06	0
General Light Industry	35.75	1000sqft	2.35	35,750.00	0
City Park	44.03	Acre	44.03	1,917,946.80	0
Health Club	15.00	1000sqft	5.80	15,000.00	0
Apartments Low Rise	449.00	Dwelling Unit	44.94	449,000.00	1199
Apartments Mid Rise	781.00	Dwelling Unit	34.07	781,000.00	2085
Single Family Housing	2,291.00	Dwelling Unit	353.23	4,123,800.00	6117
Regional Shopping Center	185.00	1000sqft	21.06	185,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2032
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - See Appendix for land use assumptions

Construction Phase - Operational run only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Trips and VMT - Operation only

Grading -

Architectural Coating - Operation only

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Energy consumption reduced by compliance margin for CALGreen compliance (30 percent for nonresidential and mid rise apartments, 53 percent for residential that includes solar)

Water And Wastewater -

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	462,703.00	0.00

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tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,388,108.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	3,613,815.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	10,841,445.00	0.00
tblAreaCoating	Area_Residential_Exterior	3613815	3636090
tblAreaCoating	Area_Residential_Interior	10841445	10908270
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	NumDays	9,300.00	0.00
tblConstructionPhase	NumDays	600.00	0.00
tblConstructionPhase	NumDays	930.00	0.00
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	NumDays	360.00	0.00
tblEnergyUse	T24E	511.12	240.23
tblEnergyUse	T24E	460.92	322.64
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	4.98	3.49
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	3.26	2.28
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	678.97	319.12
tblEnergyUse	T24NG	9,411.72	4,423.51
tblEnergyUse	T24NG	7,061.10	4,942.77
tblEnergyUse	T24NG	14.60	10.22
tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	12.42	8.69
tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	4.49	3.14

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tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	23,147.69	10,879.41
tblFireplaces	NumberNoFireplace	449.00	410.00
tblFireplaces	NumberNoFireplace	2,291.00	2,331.00
tblLandUse	LotAcreage	9.53	30.18
tblLandUse	LotAcreage	3.42	11.72
tblLandUse	LotAcreage	2.88	22.19
tblLandUse	LotAcreage	0.82	2.35
tblLandUse	LotAcreage	0.34	5.80
tblLandUse	LotAcreage	28.06	44.94
tblLandUse	LotAcreage	20.55	34.07
tblLandUse	LotAcreage	743.83	353.23
tblLandUse	LotAcreage	4.25	21.06
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	VendorTripNumber	842.00	0.00
tblTripsAndVMT	WorkerTripNumber	2,830.00	0.00
tblTripsAndVMT	WorkerTripNumber	566.00	0.00

2.0 Emissions Summary

Mather South RPS Adjusted Operational - Sacramento County, Annual

2.1 Overall Construction

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2061	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2063	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	29.4270	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879
Energy	0.2803	2.4303	1.2731	0.0153		0.1937	0.1937		0.1937	0.1937	0.0000	12,049.5048	12,049.5048	0.5088	0.1451	12,105.4767
Mobile	8.1809	39.8486	104.1791	0.4697	54.0510	0.2767	54.3277	14.4736	0.2573	14.7309	0.0000	43,434.0140	43,434.0140	1.5819	0.0000	43,473.5603
Waste						0.0000	0.0000		0.0000	0.0000	764.6751	0.0000	764.6751	45.1910	0.0000	1,894.4501
Water						0.0000	0.0000		0.0000	0.0000	142.5706	781.8543	924.4249	0.5291	0.3180	1,032.4144
Total	37.8882	42.6967	141.6968	0.4869	54.0510	0.6719	54.7229	14.4736	0.6525	15.1260	907.2457	56,324.7444	57,231.9901	47.8675	0.4631	58,566.6894

Mather South RPS Adjusted Operational - Sacramento County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	29.4270	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879
Energy	0.2803	2.4303	1.2731	0.0153		0.1937	0.1937		0.1937	0.1937	0.0000	12,049.5048	12,049.5048	0.5088	0.1451	12,105.4767
Mobile	8.1809	39.8486	104.1791	0.4697	54.0510	0.2767	54.3277	14.4736	0.2573	14.7309	0.0000	43,434.0140	43,434.0140	1.5819	0.0000	43,473.5603
Waste						0.0000	0.0000		0.0000	0.0000	764.6751	0.0000	764.6751	45.1910	0.0000	1,894.4501
Water						0.0000	0.0000		0.0000	0.0000	142.5706	781.8543	924.4249	0.5291	0.3180	1,032.4144
Total	37.8882	42.6967	141.6968	0.4869	54.0510	0.6719	54.7229	14.4736	0.6525	15.1260	907.2457	56,324.7444	57,231.9901	47.8675	0.4631	58,566.6894

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/8/2018	3/7/2018	5	0	
2	Site Preparation	Site Preparation	6/25/2020	6/24/2020	5	0	
3	Grading	Grading	11/11/2021	11/10/2021	5	0	
4	Building Construction	Building Construction	6/5/2025	6/4/2025	5	0	
5	Paving	Paving	1/27/2061	1/26/2061	5	0	
6	Architectural Coating	Architectural Coating	8/9/2063	8/8/2063	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating					
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Mather South RPS Adjusted Operational - Sacramento County, Annual

3.7 Architectural Coating - 2063

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.1809	39.8486	104.1791	0.4697	54.0510	0.2767	54.3277	14.4736	0.2573	14.7309	0.0000	43,434.0140	43,434.0140	1.5819	0.0000	43,473.5603
Unmitigated	8.1809	39.8486	104.1791	0.4697	54.0510	0.2767	54.3277	14.4736	0.2573	14.7309	0.0000	43,434.0140	43,434.0140	1.5819	0.0000	43,473.5603

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,958.91	3,214.84	2725.43	10,909,639	10,909,639
Apartments Mid Rise	5,193.65	4,990.59	4576.66	18,697,026	18,697,026
City Park	83.22	1,001.68	737.06	832,142	832,142
Elementary School	1,935.00	0.00	0.00	4,334,867	4,334,867
General Light Industry	249.18	47.19	24.31	770,280	770,280
General Office Building	4,580.21	1,021.52	436.01	10,530,747	10,530,747
Health Club	493.95	313.05	400.95	917,217	917,217
Regional Shopping Center	7,899.50	9,244.45	4669.40	15,563,366	15,563,366
Research & Development	1,208.39	283.10	165.39	2,942,852	2,942,852
Single Family Housing	21,810.32	22,703.81	19748.42	79,713,835	79,713,835
Total	46,412.32	42,820.23	33,483.63	145,211,971	145,211,971

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
City Park	15.00	7.50	8.50	33.00	48.00	19.00	66	28	6
Elementary School	15.00	7.50	8.50	65.00	30.00	5.00	63	25	12
General Light Industry	15.00	7.50	8.50	59.00	28.00	13.00	92	5	3
General Office Building	15.00	7.50	8.50	33.00	48.00	19.00	77	19	4
Health Club	15.00	7.50	8.50	16.90	64.10	19.00	52	39	9
Regional Shopping Center	15.00	7.50	8.50	16.30	64.70	19.00	54	35	11
Research & Development	15.00	7.50	8.50	33.00	48.00	19.00	82	15	3
Single Family Housing	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Apartments Mid Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
City Park	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Elementary School	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Light Industry	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Office Building	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Health Club	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Regional Shopping Center	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Research & Development	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Single Family Housing	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mather South RPS Adjusted Operational - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9,275.0581	9,275.0581	0.4557	0.0943	9,314.5429
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9,275.0581	9,275.0581	0.4557	0.0943	9,314.5429
NaturalGas Mitigated	0.2803	2.4303	1.2731	0.0153		0.1937	0.1937		0.1937	0.1937	0.0000	2,774.4467	2,774.4467	0.0532	0.0509	2,790.9338
NaturalGas Unmitigated	0.2803	2.4303	1.2731	0.0153		0.1937	0.1937		0.1937	0.1937	0.0000	2,774.4467	2,774.4467	0.0532	0.0509	2,790.9338

Mather South RPS Adjusted Operational - Sacramento County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	3.19262e+006	0.0172	0.1471	0.0626	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.3703	170.3703	3.2700e-003	3.1200e-003	171.3827
Apartments Mid Rise	5.95885e+006	0.0321	0.2746	0.1168	1.7500e-003		0.0222	0.0222		0.0222	0.0222	0.0000	317.9870	317.9870	6.0900e-003	5.8300e-003	319.8766
City Park	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
Elementary School	1.36441e+006	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	72.8100	72.8100	1.4000e-003	1.3300e-003	73.2426
General Light Industry	1.02924e+006	5.5500e-003	0.0505	0.0424	3.0000e-004		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	54.9243	54.9243	1.0500e-003	1.0100e-003	55.2507
General Office Building	3.89089e+006	0.0210	0.1907	0.1602	1.1400e-003		0.0145	0.0145		0.0145	0.0145	0.0000	207.6328	207.6328	3.9800e-003	3.8100e-003	208.8667
Health Club	431850	2.3300e-003	0.0212	0.0178	1.3000e-004		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	23.0452	23.0452	4.4000e-004	4.2000e-004	23.1821
Regional Shopping Center	752950	4.0600e-003	0.0369	0.0310	2.2000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	40.1803	40.1803	7.7000e-004	7.4000e-004	40.4191
Research & Development	4.28971e+006	0.0231	0.2103	0.1766	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.9153	228.9153	4.3900e-003	4.2000e-003	230.2756
Single Family Housing	3.10806e+007	0.1676	1.4322	0.6094	9.1400e-003		0.1158	0.1158		0.1158	0.1158	0.0000	1,658.5816	1,658.5816	0.0318	0.0304	1,668.4377
Total		0.2804	2.4303	1.2731	0.0153		0.1937	0.1937		0.1937	0.1937	0.0000	2,774.4467	2,774.4467	0.0532	0.0509	2,790.9338

Mather South RPS Adjusted Operational - Sacramento County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	3.19262e+006	0.0172	0.1471	0.0626	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.3703	170.3703	3.2700e-003	3.1200e-003	171.3827
Apartments Mid Rise	5.95885e+006	0.0321	0.2746	0.1168	1.7500e-003		0.0222	0.0222		0.0222	0.0222	0.0000	317.9870	317.9870	6.0900e-003	5.8300e-003	319.8766
City Park	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
Elementary School	1.36441e+006	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	72.8100	72.8100	1.4000e-003	1.3300e-003	73.2426
General Light Industry	1.02924e+006	5.5500e-003	0.0505	0.0424	3.0000e-004		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	54.9243	54.9243	1.0500e-003	1.0100e-003	55.2507
General Office Building	3.89089e+006	0.0210	0.1907	0.1602	1.1400e-003		0.0145	0.0145		0.0145	0.0145	0.0000	207.6328	207.6328	3.9800e-003	3.8100e-003	208.8667
Health Club	431850	2.3300e-003	0.0212	0.0178	1.3000e-004		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	23.0452	23.0452	4.4000e-004	4.2000e-004	23.1821
Regional Shopping Center	752950	4.0600e-003	0.0369	0.0310	2.2000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	40.1803	40.1803	7.7000e-004	7.4000e-004	40.4191
Research & Development	4.28971e+006	0.0231	0.2103	0.1766	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.9153	228.9153	4.3900e-003	4.2000e-003	230.2756
Single Family Housing	3.10806e+007	0.1676	1.4322	0.6094	9.1400e-003		0.1158	0.1158		0.1158	0.1158	0.0000	1,658.5816	1,658.5816	0.0318	0.0304	1,668.4377
Total		0.2804	2.4303	1.2731	0.0153		0.1937	0.1937		0.1937	0.1937	0.0000	2,774.4467	2,774.4467	0.0532	0.0509	2,790.9338

Mather South RPS Adjusted Operational - Sacramento County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.89628e+006	507.7493	0.0249	5.1600e-003	509.9108
Apartments Mid Rise	3.2163e+006	861.1965	0.0423	8.7500e-003	864.8627
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	841468	225.3116	0.0111	2.2900e-003	226.2707
General Light Industry	506220	135.5455	6.6600e-003	1.3800e-003	136.1226
General Office Building	5.37749e+006	1,439.8767	0.0707	0.0146	1,446.0063
Health Club	212400	56.8723	2.7900e-003	5.8000e-004	57.1144
Regional Shopping Center	1.95915e+006	524.5822	0.0258	5.3300e-003	526.8154
Research & Development	2.10984e+006	564.9310	0.0278	5.7400e-003	567.3360
Single Family Housing	1.85203e+007	4,958.9932	0.2436	0.0504	4,980.1041
Total		9,275.0581	0.4557	0.0943	9,314.5428

Mather South RPS Adjusted Operational - Sacramento County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.89628e+006	507.7493	0.0249	5.1600e-003	509.9108
Apartments Mid Rise	3.2163e+006	861.1965	0.0423	8.7500e-003	864.8627
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	841468	225.3116	0.0111	2.2900e-003	226.2707
General Light Industry	506220	135.5455	6.6600e-003	1.3800e-003	136.1226
General Office Building	5.37749e+006	1,439.8767	0.0707	0.0146	1,446.0063
Health Club	212400	56.8723	2.7900e-003	5.8000e-004	57.1144
Regional Shopping Center	1.95915e+006	524.5822	0.0258	5.3300e-003	526.8154
Research & Development	2.10984e+006	564.9310	0.0278	5.7400e-003	567.3360
Single Family Housing	1.85203e+007	4,958.9932	0.2436	0.0504	4,980.1041
Total		9,275.0581	0.4557	0.0943	9,314.5428

6.0 Area Detail

6.1 Mitigation Measures Area

Mather South RPS Adjusted Operational - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	29.4270	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879
Unmitigated	29.4270	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879

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	3.7996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	24.5415					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0859	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879
Total	29.4270	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879

Mather South RPS Adjusted Operational - Sacramento County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.7996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	24.5415					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0859	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879
Total	29.4270	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879

7.0 Water Detail

7.1 Mitigation Measures Water

Mather South RPS Adjusted Operational - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	924.4249	0.5291	0.3180	1,032.414 4
Unmitigated	924.4249	0.5291	0.3180	1,032.414 4

Mather South RPS Adjusted Operational - Sacramento County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	29.2542 / 18.4428	66.6633	0.0384	0.0231	74.5010
Apartments Mid Rise	50.8853 / 32.0799	115.9555	0.0668	0.0402	129.5887
City Park	0 / 52.4609	49.1643	2.4200e-003	5.0000e-004	49.3736
Elementary School	3.63636 / 9.35064	14.9010	5.1000e-003	2.9400e-003	15.9034
General Light Industry	8.26719 / 0	13.9545	0.0106	6.4700e-003	16.1487
General Office Building	73.8039 / 45.2347	166.9690	0.0968	0.0582	186.7374
Health Club	0.887147 / 0.543735	2.0070	1.1600e-003	7.0000e-004	2.2446
Regional Shopping Center	13.7034 / 8.39887	31.0017	0.0180	0.0108	34.6721
Research & Development	73.2624 / 0	123.6628	0.0940	0.0574	143.1070
Single Family Housing	149.268 / 94.1037	340.1459	0.1959	0.1178	380.1378
Total		924.4249	0.5291	0.3180	1,032.4144

Mather South RPS Adjusted Operational - Sacramento County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	29.2542 / 18.4428	66.6633	0.0384	0.0231	74.5010
Apartments Mid Rise	50.8853 / 32.0799	115.9555	0.0668	0.0402	129.5887
City Park	0 / 52.4609	49.1643	2.4200e-003	5.0000e-004	49.3736
Elementary School	3.63636 / 9.35064	14.9010	5.1000e-003	2.9400e-003	15.9034
General Light Industry	8.26719 / 0	13.9545	0.0106	6.4700e-003	16.1487
General Office Building	73.8039 / 45.2347	166.9690	0.0968	0.0582	186.7374
Health Club	0.887147 / 0.543735	2.0070	1.1600e-003	7.0000e-004	2.2446
Regional Shopping Center	13.7034 / 8.39887	31.0017	0.0180	0.0108	34.6721
Research & Development	73.2624 / 0	123.6628	0.0940	0.0574	143.1070
Single Family Housing	149.268 / 94.1037	340.1459	0.1959	0.1178	380.1378
Total		924.4249	0.5291	0.3180	1,032.4144

8.0 Waste Detail

8.1 Mitigation Measures Waste

Mather South RPS Adjusted Operational - Sacramento County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	764.6751	45.1910	0.0000	1,894.450 1
Unmitigated	764.6751	45.1910	0.0000	1,894.450 1

Mather South RPS Adjusted Operational - Sacramento County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	206.54	41.9258	2.4777	0.0000	103.8693
Apartments Mid Rise	359.26	72.9265	4.3098	0.0000	180.6724
City Park	3.79	0.7693	0.0455	0.0000	1.9060
Elementary School	273.75	55.5688	3.2840	0.0000	137.6693
General Light Industry	44.33	8.9986	0.5318	0.0000	22.2936
General Office Building	386.18	78.3911	4.6328	0.0000	194.2105
Health Club	85.5	17.3557	1.0257	0.0000	42.9981
Regional Shopping Center	194.25	39.4310	2.3303	0.0000	97.6886
Research & Development	11.32	2.2979	0.1358	0.0000	5.6929
Single Family Housing	2202.12	447.0105	26.4176	0.0000	1,107.4495
Total		764.6751	45.1910	0.0000	1,894.4501

Mather South RPS Adjusted Operational - Sacramento County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	206.54	41.9258	2.4777	0.0000	103.8693
Apartments Mid Rise	359.26	72.9265	4.3098	0.0000	180.6724
City Park	3.79	0.7693	0.0455	0.0000	1.9060
Elementary School	273.75	55.5688	3.2840	0.0000	137.6693
General Light Industry	44.33	8.9986	0.5318	0.0000	22.2936
General Office Building	386.18	78.3911	4.6328	0.0000	194.2105
Health Club	85.5	17.3557	1.0257	0.0000	42.9981
Regional Shopping Center	194.25	39.4310	2.3303	0.0000	97.6886
Research & Development	11.32	2.2979	0.1358	0.0000	5.6929
Single Family Housing	2202.12	447.0105	26.4176	0.0000	1,107.4495
Total		764.6751	45.1910	0.0000	1,894.4501

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Mather South RPS Adjusted Operational - Sacramento County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Mather South RPS Adjusted Operational - Sacramento County, Summer

**Mather South RPS Adjusted Operational
Sacramento County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	415.25	1000sqft	30.18	415,250.00	0
Research & Development	149.00	1000sqft	11.72	149,000.00	0
Elementary School	1,500.00	Student	22.19	125,405.06	0
General Light Industry	35.75	1000sqft	2.35	35,750.00	0
City Park	44.03	Acre	44.03	1,917,946.80	0
Health Club	15.00	1000sqft	5.80	15,000.00	0
Apartments Low Rise	449.00	Dwelling Unit	44.94	449,000.00	1199
Apartments Mid Rise	781.00	Dwelling Unit	34.07	781,000.00	2085
Single Family Housing	2,291.00	Dwelling Unit	353.23	4,123,800.00	6117
Regional Shopping Center	185.00	1000sqft	21.06	185,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2032
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Mather South RPS Adjusted Operational - Sacramento County, Summer

Project Characteristics -

Land Use - See Appendix for land use assumptions

Construction Phase - Operational run only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Trips and VMT - Operation only

Grading -

Architectural Coating - Operation only

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Energy consumption reduced by compliance margin for CALGreen compliance (30 percent for nonresidential and mid rise apartments, 53 percent for residential that includes solar)

Water And Wastewater -

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	462,703.00	0.00

Mather South RPS Adjusted Operational - Sacramento County, Summer

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,388,108.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	3,613,815.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	10,841,445.00	0.00
tblAreaCoating	Area_Residential_Exterior	3613815	3636090
tblAreaCoating	Area_Residential_Interior	10841445	10908270
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	NumDays	9,300.00	0.00
tblConstructionPhase	NumDays	600.00	0.00
tblConstructionPhase	NumDays	930.00	0.00
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	NumDays	360.00	0.00
tblEnergyUse	T24E	511.12	240.23
tblEnergyUse	T24E	460.92	322.64
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	4.98	3.49
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	3.26	2.28
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	678.97	319.12
tblEnergyUse	T24NG	9,411.72	4,423.51
tblEnergyUse	T24NG	7,061.10	4,942.77
tblEnergyUse	T24NG	14.60	10.22
tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	12.42	8.69
tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	4.49	3.14

Mather South RPS Adjusted Operational - Sacramento County, Summer

tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	23,147.69	10,879.41
tblFireplaces	NumberNoFireplace	449.00	410.00
tblFireplaces	NumberNoFireplace	2,291.00	2,331.00
tblLandUse	LotAcreage	9.53	30.18
tblLandUse	LotAcreage	3.42	11.72
tblLandUse	LotAcreage	2.88	22.19
tblLandUse	LotAcreage	0.82	2.35
tblLandUse	LotAcreage	0.34	5.80
tblLandUse	LotAcreage	28.06	44.94
tblLandUse	LotAcreage	20.55	34.07
tblLandUse	LotAcreage	743.83	353.23
tblLandUse	LotAcreage	4.25	21.06
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Mather South RPS Adjusted Operational - Sacramento County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	VendorTripNumber	842.00	0.00
tblTripsAndVMT	WorkerTripNumber	2,830.00	0.00
tblTripsAndVMT	WorkerTripNumber	566.00	0.00

2.0 Emissions Summary

Mather South RPS Adjusted Operational - Sacramento County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571
Energy	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131
Mobile	63.6328	238.2622	733.5417	3.1076	342.8635	1.6973	344.5609	91.5501	1.5780	93.1280		316,289.5255	316,289.5255	10.9049		316,562.1489
Total	229.1498	254.9208	1,030.4748	3.2067	342.8635	4.3705	347.2340	91.5501	4.2511	95.8011	0.0000	333,570.9208	333,570.9208	11.7258	0.3072	333,955.6192

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	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571
Energy	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131
Mobile	63.6328	238.2622	733.5417	3.1076	342.8635	1.6973	344.5609	91.5501	1.5780	93.1280		316,289.5255	316,289.5255	10.9049		316,562.1489
Total	229.1498	254.9208	1,030.4748	3.2067	342.8635	4.3705	347.2340	91.5501	4.2511	95.8011	0.0000	333,570.9208	333,570.9208	11.7258	0.3072	333,955.6192

Mather South RPS Adjusted Operational - Sacramento County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/8/2018	3/7/2018	5	0	
2	Site Preparation	Site Preparation	6/25/2020	6/24/2020	5	0	
3	Grading	Grading	11/11/2021	11/10/2021	5	0	
4	Building Construction	Building Construction	6/5/2025	6/4/2025	5	0	
5	Paving	Paving	1/27/2061	1/26/2061	5	0	
6	Architectural Coating	Architectural Coating	8/9/2063	8/8/2063	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Mather South RPS Adjusted Operational - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating					
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Mather South RPS Adjusted Operational - Sacramento County, Summer

3.7 Architectural Coating - 2063

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Mather South RPS Adjusted Operational - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	63.6328	238.2622	733.5417	3.1076	342.8635	1.6973	344.5609	91.5501	1.5780	93.1280		316,289.5255	316,289.5255	10.9049		316,562.1489
Unmitigated	63.6328	238.2622	733.5417	3.1076	342.8635	1.6973	344.5609	91.5501	1.5780	93.1280		316,289.5255	316,289.5255	10.9049		316,562.1489

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,958.91	3,214.84	2725.43	10,909,639	10,909,639
Apartments Mid Rise	5,193.65	4,990.59	4576.66	18,697,026	18,697,026
City Park	83.22	1,001.68	737.06	832,142	832,142
Elementary School	1,935.00	0.00	0.00	4,334,867	4,334,867
General Light Industry	249.18	47.19	24.31	770,280	770,280
General Office Building	4,580.21	1,021.52	436.01	10,530,747	10,530,747
Health Club	493.95	313.05	400.95	917,217	917,217
Regional Shopping Center	7,899.50	9,244.45	4669.40	15,563,366	15,563,366
Research & Development	1,208.39	283.10	165.39	2,942,852	2,942,852
Single Family Housing	21,810.32	22,703.81	19748.42	79,713,835	79,713,835
Total	46,412.32	42,820.23	33,483.63	145,211,971	145,211,971

4.3 Trip Type Information

Mather South RPS Adjusted Operational - Sacramento County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
City Park	15.00	7.50	8.50	33.00	48.00	19.00	66	28	6
Elementary School	15.00	7.50	8.50	65.00	30.00	5.00	63	25	12
General Light Industry	15.00	7.50	8.50	59.00	28.00	13.00	92	5	3
General Office Building	15.00	7.50	8.50	33.00	48.00	19.00	77	19	4
Health Club	15.00	7.50	8.50	16.90	64.10	19.00	52	39	9
Regional Shopping Center	15.00	7.50	8.50	16.30	64.70	19.00	54	35	11
Research & Development	15.00	7.50	8.50	33.00	48.00	19.00	82	15	3
Single Family Housing	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Apartments Mid Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
City Park	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Elementary School	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Light Industry	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Office Building	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Health Club	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Regional Shopping Center	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Research & Development	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Single Family Housing	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mather South RPS Adjusted Operational - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131
NaturalGas Unmitigated	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131

Mather South RPS Adjusted Operational - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	8746.9	0.0943	0.8061	0.3430	5.1500e-003		0.0652	0.0652		0.0652	0.0652		1,029.0472	1,029.0472	0.0197	0.0189	1,035.1623
Apartments Mid Rise	16325.6	0.1761	1.5045	0.6402	9.6000e-003		0.1216	0.1216		0.1216	0.1216		1,920.6609	1,920.6609	0.0368	0.0352	1,932.0744
City Park	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
Elementary School	3738.1	0.0403	0.3665	0.3078	2.2000e-003		0.0279	0.0279		0.0279	0.0279		439.7767	439.7767	8.4300e-003	8.0600e-003	442.3900
General Light Industry	2819.84	0.0304	0.2765	0.2322	1.6600e-003		0.0210	0.0210		0.0210	0.0210		331.7462	331.7462	6.3600e-003	6.0800e-003	333.7176
General Office Building	10660	0.1150	1.0451	0.8779	6.2700e-003		0.0794	0.0794		0.0794	0.0794		1,254.1152	1,254.1152	0.0240	0.0230	1,261.5678
Health Club	1183.15	0.0128	0.1160	0.0974	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003		139.1942	139.1942	2.6700e-003	2.5500e-003	140.0214
Regional Shopping Center	2062.88	0.0223	0.2022	0.1699	1.2100e-003		0.0154	0.0154		0.0154	0.0154		242.6914	242.6914	4.6500e-003	4.4500e-003	244.1336
Research & Development	11752.6	0.1267	1.1522	0.9679	6.9100e-003		0.0876	0.0876		0.0876	0.0876		1,382.6624	1,382.6624	0.0265	0.0254	1,390.8788
Single Family Housing	85152.5	0.9183	7.8474	3.3393	0.0501		0.6345	0.6345		0.6345	0.6345		10,017.9356	10,017.9356	0.1920	0.1837	10,077.4672
Total		1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131

Mather South RPS Adjusted Operational - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	8.7469	0.0943	0.8061	0.3430	5.1500e-003		0.0652	0.0652		0.0652	0.0652		1,029.0472	1,029.0472	0.0197	0.0189	1,035.1623
Apartments Mid Rise	16.3256	0.1761	1.5045	0.6402	9.6000e-003		0.1216	0.1216		0.1216	0.1216		1,920.6609	1,920.6609	0.0368	0.0352	1,932.0744
City Park	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
Elementary School	3.7381	0.0403	0.3665	0.3078	2.2000e-003		0.0279	0.0279		0.0279	0.0279		439.7767	439.7767	8.4300e-003	8.0600e-003	442.3900
General Light Industry	2.81984	0.0304	0.2765	0.2322	1.6600e-003		0.0210	0.0210		0.0210	0.0210		331.7462	331.7462	6.3600e-003	6.0800e-003	333.7176
General Office Building	10.66	0.1150	1.0451	0.8779	6.2700e-003		0.0794	0.0794		0.0794	0.0794		1,254.1152	1,254.1152	0.0240	0.0230	1,261.5678
Health Club	1.18315	0.0128	0.1160	0.0974	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003		139.1942	139.1942	2.6700e-003	2.5500e-003	140.0214
Regional Shopping Center	2.06288	0.0223	0.2022	0.1699	1.2100e-003		0.0154	0.0154		0.0154	0.0154		242.6914	242.6914	4.6500e-003	4.4500e-003	244.1336
Research & Development	11.7526	0.1267	1.1522	0.9679	6.9100e-003		0.0876	0.0876		0.0876	0.0876		1,382.6624	1,382.6624	0.0265	0.0254	1,390.8788
Single Family Housing	85.1525	0.9183	7.8474	3.3393	0.0501		0.6345	0.6345		0.6345	0.6345		10,017.9356	10,017.9356	0.1920	0.1837	10,077.4672
Total		1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131

6.0 Area Detail

6.1 Mitigation Measures Area

Mather South RPS Adjusted Operational - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571
Unmitigated	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571

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	20.8196					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	134.4738					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.6875	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118		523.5656	523.5656	0.4997		536.0571
Total	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571

Mather South RPS Adjusted Operational - Sacramento County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	20.8196					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	134.4738					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.6875	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118		523.5656	523.5656	0.4997		536.0571
Total	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Mather South RPS Adjusted Operational - Sacramento County, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Mather South RPS Adjusted Operational - Sacramento County, Winter

Mather South RPS Adjusted Operational
Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	415.25	1000sqft	30.18	415,250.00	0
Research & Development	149.00	1000sqft	11.72	149,000.00	0
Elementary School	1,500.00	Student	22.19	125,405.06	0
General Light Industry	35.75	1000sqft	2.35	35,750.00	0
City Park	44.03	Acre	44.03	1,917,946.80	0
Health Club	15.00	1000sqft	5.80	15,000.00	0
Apartments Low Rise	449.00	Dwelling Unit	44.94	449,000.00	1199
Apartments Mid Rise	781.00	Dwelling Unit	34.07	781,000.00	2085
Single Family Housing	2,291.00	Dwelling Unit	353.23	4,123,800.00	6117
Regional Shopping Center	185.00	1000sqft	21.06	185,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2032
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Mather South RPS Adjusted Operational - Sacramento County, Winter

Project Characteristics -

Land Use - See Appendix for land use assumptions

Construction Phase - Operational run only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Trips and VMT - Operation only

Grading -

Architectural Coating - Operation only

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Energy consumption reduced by compliance margin for CALGreen compliance (30 percent for nonresidential and mid rise apartments, 53 percent for residential that includes solar)

Water And Wastewater -

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	462,703.00	0.00

Mather South RPS Adjusted Operational - Sacramento County, Winter

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,388,108.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	3,613,815.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	10,841,445.00	0.00
tblAreaCoating	Area_Residential_Exterior	3613815	3636090
tblAreaCoating	Area_Residential_Interior	10841445	10908270
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	NumDays	9,300.00	0.00
tblConstructionPhase	NumDays	600.00	0.00
tblConstructionPhase	NumDays	930.00	0.00
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	NumDays	360.00	0.00
tblEnergyUse	T24E	511.12	240.23
tblEnergyUse	T24E	460.92	322.64
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	4.98	3.49
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	3.26	2.28
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	678.97	319.12
tblEnergyUse	T24NG	9,411.72	4,423.51
tblEnergyUse	T24NG	7,061.10	4,942.77
tblEnergyUse	T24NG	14.60	10.22
tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	12.42	8.69
tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	4.49	3.14

Mather South RPS Adjusted Operational - Sacramento County, Winter

tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	23,147.69	10,879.41
tblFireplaces	NumberNoFireplace	449.00	410.00
tblFireplaces	NumberNoFireplace	2,291.00	2,331.00
tblLandUse	LotAcreage	9.53	30.18
tblLandUse	LotAcreage	3.42	11.72
tblLandUse	LotAcreage	2.88	22.19
tblLandUse	LotAcreage	0.82	2.35
tblLandUse	LotAcreage	0.34	5.80
tblLandUse	LotAcreage	28.06	44.94
tblLandUse	LotAcreage	20.55	34.07
tblLandUse	LotAcreage	743.83	353.23
tblLandUse	LotAcreage	4.25	21.06
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Mather South RPS Adjusted Operational - Sacramento County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	VendorTripNumber	842.00	0.00
tblTripsAndVMT	WorkerTripNumber	2,830.00	0.00
tblTripsAndVMT	WorkerTripNumber	566.00	0.00

2.0 Emissions Summary

Mather South RPS Adjusted Operational - Sacramento County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571
Energy	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131
Mobile	47.3579	251.1257	651.4548	2.8174	342.8635	1.7050	344.5685	91.5501	1.5853	93.1353		287,214.3652	287,214.3652	10.9142		287,487.2198
Total	212.8749	267.7843	948.3879	2.9166	342.8635	4.3781	347.2416	91.5501	4.2584	95.8084	0.0000	304,495.7605	304,495.7605	11.7350	0.3072	304,880.6900

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	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571
Energy	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131
Mobile	47.3579	251.1257	651.4548	2.8174	342.8635	1.7050	344.5685	91.5501	1.5853	93.1353		287,214.3652	287,214.3652	10.9142		287,487.2198
Total	212.8749	267.7843	948.3879	2.9166	342.8635	4.3781	347.2416	91.5501	4.2584	95.8084	0.0000	304,495.7605	304,495.7605	11.7350	0.3072	304,880.6900

Mather South RPS Adjusted Operational - Sacramento County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/8/2018	3/7/2018	5	0	
2	Site Preparation	Site Preparation	6/25/2020	6/24/2020	5	0	
3	Grading	Grading	11/11/2021	11/10/2021	5	0	
4	Building Construction	Building Construction	6/5/2025	6/4/2025	5	0	
5	Paving	Paving	1/27/2061	1/26/2061	5	0	
6	Architectural Coating	Architectural Coating	8/9/2063	8/8/2063	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Mather South RPS Adjusted Operational - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating					
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Mather South RPS Adjusted Operational - Sacramento County, Winter

3.7 Architectural Coating - 2063

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Mather South RPS Adjusted Operational - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.3579	251.1257	651.4548	2.8174	342.8635	1.7050	344.5685	91.5501	1.5853	93.1353		287,214.3652	287,214.3652	10.9142		287,487.2198
Unmitigated	47.3579	251.1257	651.4548	2.8174	342.8635	1.7050	344.5685	91.5501	1.5853	93.1353		287,214.3652	287,214.3652	10.9142		287,487.2198

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,958.91	3,214.84	2725.43	10,909,639	10,909,639
Apartments Mid Rise	5,193.65	4,990.59	4576.66	18,697,026	18,697,026
City Park	83.22	1,001.68	737.06	832,142	832,142
Elementary School	1,935.00	0.00	0.00	4,334,867	4,334,867
General Light Industry	249.18	47.19	24.31	770,280	770,280
General Office Building	4,580.21	1,021.52	436.01	10,530,747	10,530,747
Health Club	493.95	313.05	400.95	917,217	917,217
Regional Shopping Center	7,899.50	9,244.45	4669.40	15,563,366	15,563,366
Research & Development	1,208.39	283.10	165.39	2,942,852	2,942,852
Single Family Housing	21,810.32	22,703.81	19748.42	79,713,835	79,713,835
Total	46,412.32	42,820.23	33,483.63	145,211,971	145,211,971

4.3 Trip Type Information

Mather South RPS Adjusted Operational - Sacramento County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3
City Park	15.00	7.50	8.50	33.00	48.00	19.00	66	28	6
Elementary School	15.00	7.50	8.50	65.00	30.00	5.00	63	25	12
General Light Industry	15.00	7.50	8.50	59.00	28.00	13.00	92	5	3
General Office Building	15.00	7.50	8.50	33.00	48.00	19.00	77	19	4
Health Club	15.00	7.50	8.50	16.90	64.10	19.00	52	39	9
Regional Shopping Center	15.00	7.50	8.50	16.30	64.70	19.00	54	35	11
Research & Development	15.00	7.50	8.50	33.00	48.00	19.00	82	15	3
Single Family Housing	15.00	7.50	8.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Apartments Mid Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
City Park	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Elementary School	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Light Industry	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Office Building	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Health Club	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Regional Shopping Center	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Research & Development	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Single Family Housing	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mather South RPS Adjusted Operational - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131
NaturalGas Unmitigated	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131

Mather South RPS Adjusted Operational - Sacramento County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	8746.9	0.0943	0.8061	0.3430	5.1500e-003		0.0652	0.0652		0.0652	0.0652		1,029.0472	1,029.0472	0.0197	0.0189	1,035.1623
Apartments Mid Rise	16325.6	0.1761	1.5045	0.6402	9.6000e-003		0.1216	0.1216		0.1216	0.1216		1,920.6609	1,920.6609	0.0368	0.0352	1,932.0744
City Park	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
Elementary School	3738.1	0.0403	0.3665	0.3078	2.2000e-003		0.0279	0.0279		0.0279	0.0279		439.7767	439.7767	8.4300e-003	8.0600e-003	442.3900
General Light Industry	2819.84	0.0304	0.2765	0.2322	1.6600e-003		0.0210	0.0210		0.0210	0.0210		331.7462	331.7462	6.3600e-003	6.0800e-003	333.7176
General Office Building	10660	0.1150	1.0451	0.8779	6.2700e-003		0.0794	0.0794		0.0794	0.0794		1,254.1152	1,254.1152	0.0240	0.0230	1,261.5678
Health Club	1183.15	0.0128	0.1160	0.0974	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003		139.1942	139.1942	2.6700e-003	2.5500e-003	140.0214
Regional Shopping Center	2062.88	0.0223	0.2022	0.1699	1.2100e-003		0.0154	0.0154		0.0154	0.0154		242.6914	242.6914	4.6500e-003	4.4500e-003	244.1336
Research & Development	11752.6	0.1267	1.1522	0.9679	6.9100e-003		0.0876	0.0876		0.0876	0.0876		1,382.6624	1,382.6624	0.0265	0.0254	1,390.8788
Single Family Housing	85152.5	0.9183	7.8474	3.3393	0.0501		0.6345	0.6345		0.6345	0.6345		10,017.9356	10,017.9356	0.1920	0.1837	10,077.4672
Total		1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131

Mather South RPS Adjusted Operational - Sacramento County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	8.7469	0.0943	0.8061	0.3430	5.1500e-003		0.0652	0.0652		0.0652	0.0652		1,029.0472	1,029.0472	0.0197	0.0189	1,035.1623
Apartments Mid Rise	16.3256	0.1761	1.5045	0.6402	9.6000e-003		0.1216	0.1216		0.1216	0.1216		1,920.6609	1,920.6609	0.0368	0.0352	1,932.0744
City Park	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
Elementary School	3.7381	0.0403	0.3665	0.3078	2.2000e-003		0.0279	0.0279		0.0279	0.0279		439.7767	439.7767	8.4300e-003	8.0600e-003	442.3900
General Light Industry	2.81984	0.0304	0.2765	0.2322	1.6600e-003		0.0210	0.0210		0.0210	0.0210		331.7462	331.7462	6.3600e-003	6.0800e-003	333.7176
General Office Building	10.66	0.1150	1.0451	0.8779	6.2700e-003		0.0794	0.0794		0.0794	0.0794		1,254.1152	1,254.1152	0.0240	0.0230	1,261.5678
Health Club	1.18315	0.0128	0.1160	0.0974	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003		139.1942	139.1942	2.6700e-003	2.5500e-003	140.0214
Regional Shopping Center	2.06288	0.0223	0.2022	0.1699	1.2100e-003		0.0154	0.0154		0.0154	0.0154		242.6914	242.6914	4.6500e-003	4.4500e-003	244.1336
Research & Development	11.7526	0.1267	1.1522	0.9679	6.9100e-003		0.0876	0.0876		0.0876	0.0876		1,382.6624	1,382.6624	0.0265	0.0254	1,390.8788
Single Family Housing	85.1525	0.9183	7.8474	3.3393	0.0501		0.6345	0.6345		0.6345	0.6345		10,017.9356	10,017.9356	0.1920	0.1837	10,077.4672
Total		1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131

6.0 Area Detail

6.1 Mitigation Measures Area

Mather South RPS Adjusted Operational - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571
Unmitigated	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571

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	20.8196					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	134.4738					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.6875	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118		523.5656	523.5656	0.4997		536.0571
Total	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571

Mather South RPS Adjusted Operational - Sacramento County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	20.8196					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	134.4738					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.6875	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118		523.5656	523.5656	0.4997		536.0571
Total	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Mather South RPS Adjusted Operational - Sacramento County, Winter

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

**Mather South TS Title 24 RPS Adjusted Operational
Sacramento County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	415.25	1000sqft	30.18	415,250.00	0
Research & Development	149.00	1000sqft	11.72	149,000.00	0
Elementary School	1,500.00	Student	22.19	125,405.06	0
General Light Industry	35.75	1000sqft	2.35	35,750.00	0
City Park	44.03	Acre	44.03	1,917,946.80	0
Health Club	15.00	1000sqft	5.80	15,000.00	0
Apartments Low Rise	449.00	Dwelling Unit	44.94	449,000.00	1199
Apartments Mid Rise	781.00	Dwelling Unit	34.07	781,000.00	2085
Single Family Housing	2,291.00	Dwelling Unit	353.23	4,123,800.00	6117
Regional Shopping Center	185.00	1000sqft	21.06	185,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2032
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	236.9	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - SMUD intensity factor provided by SMUD for 2030.

Land Use - See Appendix for land use assumptions

Construction Phase - Operational run only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Trips and VMT - Operation only

Grading -

Architectural Coating - Operation only

Vehicle Trips - Trip lengths and rates adjusted to match traffic study

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Energy consumption reduced by compliance margin for CALGreen compliance (30 percent for nonresidential and mid rise apartments, 53 percent for residential that includes solar)

Water And Wastewater - Water usage based on water demand forecasting

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	462,703.00	0.00

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tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,388,108.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	3,613,815.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	10,841,445.00	0.00
tblAreaCoating	Area_Residential_Exterior	3613815	3636090
tblAreaCoating	Area_Residential_Interior	10841445	10908270
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	NumDays	9,300.00	0.00
tblConstructionPhase	NumDays	600.00	0.00
tblConstructionPhase	NumDays	930.00	0.00
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	NumDays	360.00	0.00
tblEnergyUse	T24E	511.12	240.23
tblEnergyUse	T24E	460.92	322.64
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	4.98	3.49
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	3.26	2.28
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	678.97	319.12
tblEnergyUse	T24NG	9,411.72	4,423.51
tblEnergyUse	T24NG	7,061.10	4,942.77
tblEnergyUse	T24NG	14.60	10.22
tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	12.42	8.69
tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	4.49	3.14

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tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	23,147.69	10,879.41
tblFireplaces	NumberNoFireplace	449.00	410.00
tblFireplaces	NumberNoFireplace	2,291.00	2,331.00
tblLandUse	LotAcreage	9.53	30.18
tblLandUse	LotAcreage	3.42	11.72
tblLandUse	LotAcreage	2.88	22.19
tblLandUse	LotAcreage	0.82	2.35
tblLandUse	LotAcreage	0.34	5.80
tblLandUse	LotAcreage	28.06	44.94
tblLandUse	LotAcreage	20.55	34.07
tblLandUse	LotAcreage	743.83	353.23
tblLandUse	LotAcreage	4.25	21.06
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	VendorTripNumber	842.00	0.00
tblTripsAndVMT	WorkerTripNumber	2,830.00	0.00
tblTripsAndVMT	WorkerTripNumber	566.00	0.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	6.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	CW_TL	15.00	10.00

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tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	HO_TL	8.50	6.00
tblVehicleTrips	HO_TL	8.50	6.00
tblVehicleTrips	HO_TL	8.50	6.73
tblVehicleTrips	HS_TL	7.50	6.00
tblVehicleTrips	HS_TL	7.50	6.00
tblVehicleTrips	HS_TL	7.50	6.00
tblVehicleTrips	HW_TL	15.00	10.00
tblVehicleTrips	HW_TL	15.00	10.00
tblVehicleTrips	HW_TL	15.00	10.00
tblVehicleTrips	ST_TR	7.16	4.45
tblVehicleTrips	ST_TR	6.39	5.12
tblVehicleTrips	ST_TR	22.75	14.76
tblVehicleTrips	ST_TR	1.32	0.42
tblVehicleTrips	ST_TR	2.46	1.93
tblVehicleTrips	ST_TR	20.87	13.33
tblVehicleTrips	ST_TR	49.97	27.03
tblVehicleTrips	ST_TR	1.90	1.34
tblVehicleTrips	ST_TR	9.91	6.11
tblVehicleTrips	SU_TR	6.07	3.34
tblVehicleTrips	SU_TR	5.86	3.84
tblVehicleTrips	SU_TR	16.74	13.63
tblVehicleTrips	SU_TR	0.68	0.42
tblVehicleTrips	SU_TR	1.05	0.72
tblVehicleTrips	SU_TR	26.73	13.33

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tblVehicleTrips	SU_TR	25.24	16.22
tblVehicleTrips	SU_TR	1.11	0.67
tblVehicleTrips	SU_TR	8.62	6.11
tblVehicleTrips	WD_TR	6.59	4.45
tblVehicleTrips	WD_TR	6.65	4.74
tblVehicleTrips	WD_TR	1.89	1.30
tblVehicleTrips	WD_TR	1.29	1.20
tblVehicleTrips	WD_TR	6.97	0.42
tblVehicleTrips	WD_TR	11.03	9.63
tblVehicleTrips	WD_TR	32.93	20.00
tblVehicleTrips	WD_TR	42.70	21.62
tblVehicleTrips	WD_TR	8.11	6.71
tblVehicleTrips	WD_TR	9.52	6.11
tblWater	IndoorWaterUseRate	29,254,157.50	42,542,453.39
tblWater	IndoorWaterUseRate	50,885,294.01	22,674,275.31
tblWater	IndoorWaterUseRate	3,636,360.00	1,639,745.37
tblWater	IndoorWaterUseRate	8,267,187.50	0.00
tblWater	IndoorWaterUseRate	73,803,938.85	18,058,222.56
tblWater	IndoorWaterUseRate	887,147.16	0.00
tblWater	IndoorWaterUseRate	13,703,416.47	10,961,445.57
tblWater	IndoorWaterUseRate	73,262,398.13	0.00
tblWater	IndoorWaterUseRate	149,267,872.70	132,360,768.10
tblWater	OutdoorWaterUseRate	18,442,838.43	26,820,015.24
tblWater	OutdoorWaterUseRate	32,079,859.27	14,294,530.78
tblWater	OutdoorWaterUseRate	52,460,923.83	56,896,191.41
tblWater	OutdoorWaterUseRate	9,350,640.00	4,217,067.92
tblWater	OutdoorWaterUseRate	45,234,672.20	11,067,969.08

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2.1 Overall Construction

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2061	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2063	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	29.4270	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879
Energy	0.2803	2.4303	1.2731	0.0153		0.1937	0.1937		0.1937	0.1937	0.0000	6,496.6626	6,496.6626	0.5088	0.1451	6,552.6344
Mobile	4.7664	23.0349	53.5168	0.2319	26.1704	0.1399	26.3102	7.0078	0.1300	7.1378	0.0000	21,453.6361	21,453.6361	0.8212	0.0000	21,474.1651
Waste						0.0000	0.0000		0.0000	0.0000	764.6751	0.0000	764.6751	45.1910	0.0000	1,894.4501
Water						0.0000	0.0000		0.0000	0.0000	80.7506	198.7203	279.4708	0.3023	0.1806	340.8578
Total	34.4738	25.8829	91.0345	0.2491	26.1704	0.5350	26.7054	7.0078	0.5252	7.5330	845.4257	28,208.3903	29,053.8159	46.8799	0.3258	30,322.8953

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	29.4270	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879
Energy	0.2803	2.4303	1.2731	0.0153		0.1937	0.1937		0.1937	0.1937	0.0000	6,496.6626	6,496.6626	0.5088	0.1451	6,552.6344
Mobile	4.5024	21.6742	47.2112	0.1997	22.2448	0.1222	22.3670	5.9566	0.1135	6.0702	0.0000	18,472.8657	18,472.8657	0.7289	0.0000	18,491.0887
Waste						0.0000	0.0000		0.0000	0.0000	428.2180	0.0000	428.2180	25.3070	0.0000	1,060.8921
Water						0.0000	0.0000		0.0000	0.0000	80.7506	198.7203	279.4708	0.3023	0.1806	340.8578
Total	34.2097	24.5222	84.7289	0.2169	22.2448	0.5173	22.7621	5.9566	0.5087	6.4653	508.9686	25,227.6198	25,736.5884	26.9036	0.3258	26,506.2609

	ROG	NOx	CO	SO2	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	0.77	5.26	6.93	12.95	15.00	3.31	14.77	15.00	3.13	14.17	39.80	10.57	11.42	42.61	0.00	12.59

3.0 Construction Detail

Construction Phase

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/8/2018	3/7/2018	5	0	
2	Site Preparation	Site Preparation	6/25/2020	6/24/2020	5	0	
3	Grading	Grading	11/11/2021	11/10/2021	5	0	
4	Building Construction	Building Construction	6/5/2025	6/4/2025	5	0	
5	Paving	Paving	1/27/2061	1/26/2061	5	0	
6	Architectural Coating	Architectural Coating	8/9/2063	8/8/2063	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating					
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

3.7 Architectural Coating - 2063

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Provide Traffic Calming Measures

Implement NEV Network

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.5024	21.6742	47.2112	0.1997	22.2448	0.1222	22.3670	5.9566	0.1135	6.0702	0.0000	18,472.8657	18,472.8657	0.7289	0.0000	18,491.0887
Unmitigated	4.7664	23.0349	53.5168	0.2319	26.1704	0.1399	26.3102	7.0078	0.1300	7.1378	0.0000	21,453.6361	21,453.6361	0.8212	0.0000	21,474.1651

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,999.85	1,999.85	1500.11	4,898,787	4,408,908
Apartments Mid Rise	3,701.94	3,998.72	2999.04	9,256,530	8,330,877
City Park	57.02	650.01	600.00	438,106	394,296
Elementary School	1,800.00	0.00	0.00	2,808,995	2,528,095
General Light Industry	15.02	15.02	15.02	42,623	38,361
General Office Building	3,998.86	801.43	298.98	6,738,873	6,064,986
Health Club	300.00	199.95	199.95	419,755	377,779
Regional Shopping Center	3,999.70	5,000.55	3000.70	7,011,695	6,310,525
Research & Development	999.79	199.66	99.83	1,775,120	1,597,608
Single Family Housing	14,000.30	14,000.30	14000.30	36,918,148	33,226,333
Total	30,872.47	26,865.49	22,713.92	70,308,631	63,277,768

4.3 Trip Type Information

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.00	6.00	6.00	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	6.00	6.00	46.50	12.50	41.00	86	11	3
City Park	10.00	6.00	7.00	33.00	48.00	19.00	66	28	6
Elementary School	10.00	6.00	7.00	65.00	30.00	5.00	63	25	12
General Light Industry	10.00	6.00	6.00	59.00	28.00	13.00	92	5	3
General Office Building	10.00	6.00	7.00	33.00	48.00	19.00	77	19	4
Health Club	10.00	6.00	7.00	16.90	64.10	19.00	52	39	9
Regional Shopping Center	15.00	6.00	7.00	16.30	64.70	19.00	54	35	11
Research & Development	10.00	6.00	7.00	33.00	48.00	19.00	82	15	3
Single Family Housing	10.00	6.00	6.73	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Apartments Mid Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
City Park	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Elementary School	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Light Industry	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Office Building	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Health Club	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Regional Shopping Center	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Research & Development	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Single Family Housing	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,722.2159	3,722.2159	0.4557	0.0943	3,761.7006
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,722.2159	3,722.2159	0.4557	0.0943	3,761.7006
NaturalGas Mitigated	0.2803	2.4303	1.2731	0.0153		0.1937	0.1937		0.1937	0.1937	0.0000	2,774.4467	2,774.4467	0.0532	0.0509	2,790.9338
NaturalGas Unmitigated	0.2803	2.4303	1.2731	0.0153		0.1937	0.1937		0.1937	0.1937	0.0000	2,774.4467	2,774.4467	0.0532	0.0509	2,790.9338

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	3.19262e+006	0.0172	0.1471	0.0626	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.3703	170.3703	3.2700e-003	3.1200e-003	171.3827
Apartments Mid Rise	5.95885e+006	0.0321	0.2746	0.1168	1.7500e-003		0.0222	0.0222		0.0222	0.0222	0.0000	317.9870	317.9870	6.0900e-003	5.8300e-003	319.8766
City Park	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
Elementary School	1.36441e+006	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	72.8100	72.8100	1.4000e-003	1.3300e-003	73.2426
General Light Industry	1.02924e+006	5.5500e-003	0.0505	0.0424	3.0000e-004		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	54.9243	54.9243	1.0500e-003	1.0100e-003	55.2507
General Office Building	3.89089e+006	0.0210	0.1907	0.1602	1.1400e-003		0.0145	0.0145		0.0145	0.0145	0.0000	207.6328	207.6328	3.9800e-003	3.8100e-003	208.8667
Health Club	431850	2.3300e-003	0.0212	0.0178	1.3000e-004		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	23.0452	23.0452	4.4000e-004	4.2000e-004	23.1821
Regional Shopping Center	752950	4.0600e-003	0.0369	0.0310	2.2000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	40.1803	40.1803	7.7000e-004	7.4000e-004	40.4191
Research & Development	4.28971e+006	0.0231	0.2103	0.1766	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.9153	228.9153	4.3900e-003	4.2000e-003	230.2756
Single Family Housing	3.10806e+007	0.1676	1.4322	0.6094	9.1400e-003		0.1158	0.1158		0.1158	0.1158	0.0000	1,658.5816	1,658.5816	0.0318	0.0304	1,668.4377
Total		0.2804	2.4303	1.2731	0.0153		0.1937	0.1937		0.1937	0.1937	0.0000	2,774.4467	2,774.4467	0.0532	0.0509	2,790.9338

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	3.19262e+006	0.0172	0.1471	0.0626	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.3703	170.3703	3.2700e-003	3.1200e-003	171.3827
Apartments Mid Rise	5.95885e+006	0.0321	0.2746	0.1168	1.7500e-003		0.0222	0.0222		0.0222	0.0222	0.0000	317.9870	317.9870	6.0900e-003	5.8300e-003	319.8766
City Park	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
Elementary School	1.36441e+006	7.3600e-003	0.0669	0.0562	4.0000e-004		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	72.8100	72.8100	1.4000e-003	1.3300e-003	73.2426
General Light Industry	1.02924e+006	5.5500e-003	0.0505	0.0424	3.0000e-004		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	54.9243	54.9243	1.0500e-003	1.0100e-003	55.2507
General Office Building	3.89089e+006	0.0210	0.1907	0.1602	1.1400e-003		0.0145	0.0145		0.0145	0.0145	0.0000	207.6328	207.6328	3.9800e-003	3.8100e-003	208.8667
Health Club	431850	2.3300e-003	0.0212	0.0178	1.3000e-004		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	23.0452	23.0452	4.4000e-004	4.2000e-004	23.1821
Regional Shopping Center	752950	4.0600e-003	0.0369	0.0310	2.2000e-004		2.8100e-003	2.8100e-003		2.8100e-003	2.8100e-003	0.0000	40.1803	40.1803	7.7000e-004	7.4000e-004	40.4191
Research & Development	4.28971e+006	0.0231	0.2103	0.1766	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	228.9153	228.9153	4.3900e-003	4.2000e-003	230.2756
Single Family Housing	3.10806e+007	0.1676	1.4322	0.6094	9.1400e-003		0.1158	0.1158		0.1158	0.1158	0.0000	1,658.5816	1,658.5816	0.0318	0.0304	1,668.4377
Total		0.2804	2.4303	1.2731	0.0153		0.1937	0.1937		0.1937	0.1937	0.0000	2,774.4467	2,774.4467	0.0532	0.0509	2,790.9338

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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			
Apartments Low Rise	1.89628e+006	203.7672	0.0249	5.1600e-003	205.9287
Apartments Mid Rise	3.2163e+006	345.6107	0.0423	8.7500e-003	349.2769
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	841468	90.4208	0.0111	2.2900e-003	91.3800
General Light Industry	506220	54.3964	6.6600e-003	1.3800e-003	54.9734
General Office Building	5.37749e+006	577.8435	0.0707	0.0146	583.9732
Health Club	212400	22.8237	2.7900e-003	5.8000e-004	23.0658
Regional Shopping Center	1.95915e+006	210.5225	0.0258	5.3300e-003	212.7557
Research & Development	2.10984e+006	226.7150	0.0278	5.7400e-003	229.1200
Single Family Housing	1.85203e+007	1,990.1162	0.2436	0.0504	2,011.2271
Total		3,722.2159	0.4557	0.0943	3,761.7006

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.89628e+006	203.7672	0.0249	5.1600e-003	205.9287
Apartments Mid Rise	3.2163e+006	345.6107	0.0423	8.7500e-003	349.2769
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	841468	90.4208	0.0111	2.2900e-003	91.3800
General Light Industry	506220	54.3964	6.6600e-003	1.3800e-003	54.9734
General Office Building	5.37749e+006	577.8435	0.0707	0.0146	583.9732
Health Club	212400	22.8237	2.7900e-003	5.8000e-004	23.0658
Regional Shopping Center	1.95915e+006	210.5225	0.0258	5.3300e-003	212.7557
Research & Development	2.10984e+006	226.7150	0.0278	5.7400e-003	229.1200
Single Family Housing	1.85203e+007	1,990.1162	0.2436	0.0504	2,011.2271
Total		3,722.2159	0.4557	0.0943	3,761.7006

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	29.4270	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879
Unmitigated	29.4270	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879

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	3.7996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	24.5415					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0859	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879
Total	29.4270	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.7996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	24.5415					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0859	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879
Total	29.4270	0.4178	36.2447	1.9200e-003		0.2015	0.2015		0.2015	0.2015	0.0000	59.3714	59.3714	0.0567	0.0000	60.7879

7.0 Water Detail

7.1 Mitigation Measures Water

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	279.4708	0.3023	0.1806	340.8578
Unmitigated	279.4708	0.3023	0.1806	340.8578

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	42.5425 / 26.82	47.9162	0.0558	0.0336	59.3142
Apartments Mid Rise	22.6743 / 14.2945	25.5384	0.0298	0.0179	31.6133
City Park	0 / 56.8962	21.3984	2.6200e-003	5.4000e-004	21.6254
Elementary School	1.63975 / 4.21707	3.0441	2.3000e-003	1.3200e-003	3.4961
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	18.0582 / 11.068	20.2202	0.0237	0.0142	25.0571
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	10.9614 / 6.71832	12.2738	0.0144	8.6500e-003	15.2098
Research & Development	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	132.361 / 83.4441	149.0798	0.1737	0.1044	184.5420
Total		279.4708	0.3023	0.1806	340.8579

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	42.5425 / 26.82	47.9162	0.0558	0.0336	59.3142
Apartments Mid Rise	22.6743 / 14.2945	25.5384	0.0298	0.0179	31.6133
City Park	0 / 56.8962	21.3984	2.6200e-003	5.4000e-004	21.6254
Elementary School	1.63975 / 4.21707	3.0441	2.3000e-003	1.3200e-003	3.4961
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	18.0582 / 11.068	20.2202	0.0237	0.0142	25.0571
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	10.9614 / 6.71832	12.2738	0.0144	8.6500e-003	15.2098
Research & Development	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	132.361 / 83.4441	149.0798	0.1737	0.1044	184.5420
Total		279.4708	0.3023	0.1806	340.8579

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	428.2180	25.3070	0.0000	1,060.892 1
Unmitigated	764.6751	45.1910	0.0000	1,894.450 1

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	206.54	41.9258	2.4777	0.0000	103.8693
Apartments Mid Rise	359.26	72.9265	4.3098	0.0000	180.6724
City Park	3.79	0.7693	0.0455	0.0000	1.9060
Elementary School	273.75	55.5688	3.2840	0.0000	137.6693
General Light Industry	44.33	8.9986	0.5318	0.0000	22.2936
General Office Building	386.18	78.3911	4.6328	0.0000	194.2105
Health Club	85.5	17.3557	1.0257	0.0000	42.9981
Regional Shopping Center	194.25	39.4310	2.3303	0.0000	97.6886
Research & Development	11.32	2.2979	0.1358	0.0000	5.6929
Single Family Housing	2202.12	447.0105	26.4176	0.0000	1,107.4495
Total		764.6751	45.1910	0.0000	1,894.4501

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	115.662	23.4784	1.3875	0.0000	58.1668
Apartments Mid Rise	201.186	40.8389	2.4135	0.0000	101.1765
City Park	2.1224	0.4308	0.0255	0.0000	1.0674
Elementary School	153.3	31.1185	1.8391	0.0000	77.0948
General Light Industry	24.8248	5.0392	0.2978	0.0000	12.4844
General Office Building	216.261	43.8990	2.5944	0.0000	108.7579
Health Club	47.88	9.7192	0.5744	0.0000	24.0789
Regional Shopping Center	108.78	22.0814	1.3050	0.0000	54.7056
Research & Development	6.3392	1.2868	0.0761	0.0000	3.1880
Single Family Housing	1233.19	250.3259	14.7938	0.0000	620.1717
Total		428.2181	25.3070	0.0000	1,060.8921

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

**Mather South TS Title 24 RPS Adjusted Operational
Sacramento County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	415.25	1000sqft	30.18	415,250.00	0
Research & Development	149.00	1000sqft	11.72	149,000.00	0
Elementary School	1,500.00	Student	22.19	125,405.06	0
General Light Industry	35.75	1000sqft	2.35	35,750.00	0
City Park	44.03	Acre	44.03	1,917,946.80	0
Health Club	15.00	1000sqft	5.80	15,000.00	0
Apartments Low Rise	449.00	Dwelling Unit	44.94	449,000.00	1199
Apartments Mid Rise	781.00	Dwelling Unit	34.07	781,000.00	2085
Single Family Housing	2,291.00	Dwelling Unit	353.23	4,123,800.00	6117
Regional Shopping Center	185.00	1000sqft	21.06	185,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2032
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	236.9	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

Project Characteristics - SMUD intensity factor provided by SMUD for 2030.

Land Use - See Appendix for land use assumptions

Construction Phase - Operational run only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Trips and VMT - Operation only

Grading -

Architectural Coating - Operation only

Vehicle Trips - Trip lengths and rates adjusted to match traffic study

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Energy consumption reduced by compliance margin for CALGreen compliance (30 percent for nonresidential and mid rise apartments, 53 percent for residential that includes solar)

Water And Wastewater - Water usage based on water demand forecasting

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	462,703.00	0.00

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,388,108.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	3,613,815.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	10,841,445.00	0.00
tblAreaCoating	Area_Residential_Exterior	3613815	3636090
tblAreaCoating	Area_Residential_Interior	10841445	10908270
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	NumDays	9,300.00	0.00
tblConstructionPhase	NumDays	600.00	0.00
tblConstructionPhase	NumDays	930.00	0.00
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	NumDays	360.00	0.00
tblEnergyUse	T24E	511.12	240.23
tblEnergyUse	T24E	460.92	322.64
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	4.98	3.49
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	3.26	2.28
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	678.97	319.12
tblEnergyUse	T24NG	9,411.72	4,423.51
tblEnergyUse	T24NG	7,061.10	4,942.77
tblEnergyUse	T24NG	14.60	10.22
tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	12.42	8.69
tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	4.49	3.14

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	23,147.69	10,879.41
tblFireplaces	NumberNoFireplace	449.00	410.00
tblFireplaces	NumberNoFireplace	2,291.00	2,331.00
tblLandUse	LotAcreage	9.53	30.18
tblLandUse	LotAcreage	3.42	11.72
tblLandUse	LotAcreage	2.88	22.19
tblLandUse	LotAcreage	0.82	2.35
tblLandUse	LotAcreage	0.34	5.80
tblLandUse	LotAcreage	28.06	44.94
tblLandUse	LotAcreage	20.55	34.07
tblLandUse	LotAcreage	743.83	353.23
tblLandUse	LotAcreage	4.25	21.06
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	VendorTripNumber	842.00	0.00
tblTripsAndVMT	WorkerTripNumber	2,830.00	0.00
tblTripsAndVMT	WorkerTripNumber	566.00	0.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	6.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	CW_TL	15.00	10.00

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	HO_TL	8.50	6.00
tblVehicleTrips	HO_TL	8.50	6.00
tblVehicleTrips	HO_TL	8.50	6.73
tblVehicleTrips	HS_TL	7.50	6.00
tblVehicleTrips	HS_TL	7.50	6.00
tblVehicleTrips	HS_TL	7.50	6.00
tblVehicleTrips	HW_TL	15.00	10.00
tblVehicleTrips	HW_TL	15.00	10.00
tblVehicleTrips	HW_TL	15.00	10.00
tblVehicleTrips	ST_TR	7.16	4.45
tblVehicleTrips	ST_TR	6.39	5.12
tblVehicleTrips	ST_TR	22.75	14.76
tblVehicleTrips	ST_TR	1.32	0.42
tblVehicleTrips	ST_TR	2.46	1.93
tblVehicleTrips	ST_TR	20.87	13.33
tblVehicleTrips	ST_TR	49.97	27.03
tblVehicleTrips	ST_TR	1.90	1.34
tblVehicleTrips	ST_TR	9.91	6.11
tblVehicleTrips	SU_TR	6.07	3.34
tblVehicleTrips	SU_TR	5.86	3.84
tblVehicleTrips	SU_TR	16.74	13.63
tblVehicleTrips	SU_TR	0.68	0.42
tblVehicleTrips	SU_TR	1.05	0.72
tblVehicleTrips	SU_TR	26.73	13.33

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

tblVehicleTrips	SU_TR	25.24	16.22
tblVehicleTrips	SU_TR	1.11	0.67
tblVehicleTrips	SU_TR	8.62	6.11
tblVehicleTrips	WD_TR	6.59	4.45
tblVehicleTrips	WD_TR	6.65	4.74
tblVehicleTrips	WD_TR	1.89	1.30
tblVehicleTrips	WD_TR	1.29	1.20
tblVehicleTrips	WD_TR	6.97	0.42
tblVehicleTrips	WD_TR	11.03	9.63
tblVehicleTrips	WD_TR	32.93	20.00
tblVehicleTrips	WD_TR	42.70	21.62
tblVehicleTrips	WD_TR	8.11	6.71
tblVehicleTrips	WD_TR	9.52	6.11
tblWater	IndoorWaterUseRate	29,254,157.50	42,542,453.39
tblWater	IndoorWaterUseRate	50,885,294.01	22,674,275.31
tblWater	IndoorWaterUseRate	3,636,360.00	1,639,745.37
tblWater	IndoorWaterUseRate	8,267,187.50	0.00
tblWater	IndoorWaterUseRate	73,803,938.85	18,058,222.56
tblWater	IndoorWaterUseRate	887,147.16	0.00
tblWater	IndoorWaterUseRate	13,703,416.47	10,961,445.57
tblWater	IndoorWaterUseRate	73,262,398.13	0.00
tblWater	IndoorWaterUseRate	149,267,872.70	132,360,768.10
tblWater	OutdoorWaterUseRate	18,442,838.43	26,820,015.24
tblWater	OutdoorWaterUseRate	32,079,859.27	14,294,530.78
tblWater	OutdoorWaterUseRate	52,460,923.83	56,896,191.41
tblWater	OutdoorWaterUseRate	9,350,640.00	4,217,067.92
tblWater	OutdoorWaterUseRate	45,234,672.20	11,067,969.08

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571
Energy	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131
Mobile	37.7922	137.9722	369.0676	1.5248	165.0374	0.8528	165.8902	44.0676	0.7926	44.8602		155,252.3000	155,252.3000	5.5966		155,392.2138
Total	203.3093	154.6307	666.0007	1.6240	165.0374	3.5259	168.5633	44.0676	3.4657	47.5333	0.0000	172,533.6953	172,533.6953	6.4174	0.3072	172,785.6840

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	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571
Energy	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131
Mobile	36.1326	130.3099	322.6507	1.3123	140.2818	0.7449	141.0267	37.4575	0.6922	38.1497		133,647.2490	133,647.2490	4.9516		133,771.0379
Total	201.6497	146.9685	619.5838	1.4115	140.2818	3.4180	143.6998	37.4575	3.3653	40.8228	0.0000	150,928.6444	150,928.6444	5.7724	0.3072	151,164.5082

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.82	4.96	6.97	13.09	15.00	3.06	14.75	15.00	2.90	14.12	0.00	12.52	12.52	10.05	0.00	12.51

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/8/2018	3/7/2018	5	0	
2	Site Preparation	Site Preparation	6/25/2020	6/24/2020	5	0	
3	Grading	Grading	11/11/2021	11/10/2021	5	0	
4	Building Construction	Building Construction	6/5/2025	6/4/2025	5	0	
5	Paving	Paving	1/27/2061	1/26/2061	5	0	
6	Architectural Coating	Architectural Coating	8/9/2063	8/8/2063	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating					
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

3.7 Architectural Coating - 2063

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Provide Traffic Calming Measures

Implement NEV Network

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	36.1326	130.3099	322.6507	1.3123	140.2818	0.7449	141.0267	37.4575	0.6922	38.1497		133,647.2490	133,647.2490	4.9516		133,771.0379
Unmitigated	37.7922	137.9722	369.0676	1.5248	165.0374	0.8528	165.8902	44.0676	0.7926	44.8602		155,252.3000	155,252.3000	5.5966		155,392.2138

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,999.85	1,999.85	1500.11	4,898,787	4,408,908
Apartments Mid Rise	3,701.94	3,998.72	2999.04	9,256,530	8,330,877
City Park	57.02	650.01	600.00	438,106	394,296
Elementary School	1,800.00	0.00	0.00	2,808,995	2,528,095
General Light Industry	15.02	15.02	15.02	42,623	38,361
General Office Building	3,998.86	801.43	298.98	6,738,873	6,064,986
Health Club	300.00	199.95	199.95	419,755	377,779
Regional Shopping Center	3,999.70	5,000.55	3000.70	7,011,695	6,310,525
Research & Development	999.79	199.66	99.83	1,775,120	1,597,608
Single Family Housing	14,000.30	14,000.30	14000.30	36,918,148	33,226,333
Total	30,872.47	26,865.49	22,713.92	70,308,631	63,277,768

4.3 Trip Type Information

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.00	6.00	6.00	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	6.00	6.00	46.50	12.50	41.00	86	11	3
City Park	10.00	6.00	7.00	33.00	48.00	19.00	66	28	6
Elementary School	10.00	6.00	7.00	65.00	30.00	5.00	63	25	12
General Light Industry	10.00	6.00	6.00	59.00	28.00	13.00	92	5	3
General Office Building	10.00	6.00	7.00	33.00	48.00	19.00	77	19	4
Health Club	10.00	6.00	7.00	16.90	64.10	19.00	52	39	9
Regional Shopping Center	15.00	6.00	7.00	16.30	64.70	19.00	54	35	11
Research & Development	10.00	6.00	7.00	33.00	48.00	19.00	82	15	3
Single Family Housing	10.00	6.00	6.73	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Apartments Mid Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
City Park	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Elementary School	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Light Industry	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Office Building	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Health Club	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Regional Shopping Center	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Research & Development	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Single Family Housing	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131
NaturalGas Unmitigated	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	8746.9	0.0943	0.8061	0.3430	5.1500e-003		0.0652	0.0652		0.0652	0.0652		1,029.0472	1,029.0472	0.0197	0.0189	1,035.1623
Apartments Mid Rise	16325.6	0.1761	1.5045	0.6402	9.6000e-003		0.1216	0.1216		0.1216	0.1216		1,920.6609	1,920.6609	0.0368	0.0352	1,932.0744
City Park	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
Elementary School	3738.1	0.0403	0.3665	0.3078	2.2000e-003		0.0279	0.0279		0.0279	0.0279		439.7767	439.7767	8.4300e-003	8.0600e-003	442.3900
General Light Industry	2819.84	0.0304	0.2765	0.2322	1.6600e-003		0.0210	0.0210		0.0210	0.0210		331.7462	331.7462	6.3600e-003	6.0800e-003	333.7176
General Office Building	10660	0.1150	1.0451	0.8779	6.2700e-003		0.0794	0.0794		0.0794	0.0794		1,254.1152	1,254.1152	0.0240	0.0230	1,261.5678
Health Club	1183.15	0.0128	0.1160	0.0974	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003		139.1942	139.1942	2.6700e-003	2.5500e-003	140.0214
Regional Shopping Center	2062.88	0.0223	0.2022	0.1699	1.2100e-003		0.0154	0.0154		0.0154	0.0154		242.6914	242.6914	4.6500e-003	4.4500e-003	244.1336
Research & Development	11752.6	0.1267	1.1522	0.9679	6.9100e-003		0.0876	0.0876		0.0876	0.0876		1,382.6624	1,382.6624	0.0265	0.0254	1,390.8788
Single Family Housing	85152.5	0.9183	7.8474	3.3393	0.0501		0.6345	0.6345		0.6345	0.6345		10,017.9356	10,017.9356	0.1920	0.1837	10,077.4672
Total		1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	8.7469	0.0943	0.8061	0.3430	5.1500e-003		0.0652	0.0652		0.0652	0.0652		1,029.0472	1,029.0472	0.0197	0.0189	1,035.1623
Apartments Mid Rise	16.3256	0.1761	1.5045	0.6402	9.6000e-003		0.1216	0.1216		0.1216	0.1216		1,920.6609	1,920.6609	0.0368	0.0352	1,932.0744
City Park	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
Elementary School	3.7381	0.0403	0.3665	0.3078	2.2000e-003		0.0279	0.0279		0.0279	0.0279		439.7767	439.7767	8.4300e-003	8.0600e-003	442.3900
General Light Industry	2.81984	0.0304	0.2765	0.2322	1.6600e-003		0.0210	0.0210		0.0210	0.0210		331.7462	331.7462	6.3600e-003	6.0800e-003	333.7176
General Office Building	10.66	0.1150	1.0451	0.8779	6.2700e-003		0.0794	0.0794		0.0794	0.0794		1,254.1152	1,254.1152	0.0240	0.0230	1,261.5678
Health Club	1.18315	0.0128	0.1160	0.0974	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003		139.1942	139.1942	2.6700e-003	2.5500e-003	140.0214
Regional Shopping Center	2.06288	0.0223	0.2022	0.1699	1.2100e-003		0.0154	0.0154		0.0154	0.0154		242.6914	242.6914	4.6500e-003	4.4500e-003	244.1336
Research & Development	11.7526	0.1267	1.1522	0.9679	6.9100e-003		0.0876	0.0876		0.0876	0.0876		1,382.6624	1,382.6624	0.0265	0.0254	1,390.8788
Single Family Housing	85.1525	0.9183	7.8474	3.3393	0.0501		0.6345	0.6345		0.6345	0.6345		10,017.9356	10,017.9356	0.1920	0.1837	10,077.4672
Total		1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131

6.0 Area Detail

6.1 Mitigation Measures Area

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571
Unmitigated	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571

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	20.8196					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	134.4738					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.6875	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118		523.5656	523.5656	0.4997		536.0571
Total	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	20.8196					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	134.4738					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.6875	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118		523.5656	523.5656	0.4997		536.0571
Total	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Summer

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

**Mather South TS Title 24 RPS Adjusted Operational
Sacramento County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	415.25	1000sqft	30.18	415,250.00	0
Research & Development	149.00	1000sqft	11.72	149,000.00	0
Elementary School	1,500.00	Student	22.19	125,405.06	0
General Light Industry	35.75	1000sqft	2.35	35,750.00	0
City Park	44.03	Acre	44.03	1,917,946.80	0
Health Club	15.00	1000sqft	5.80	15,000.00	0
Apartments Low Rise	449.00	Dwelling Unit	44.94	449,000.00	1199
Apartments Mid Rise	781.00	Dwelling Unit	34.07	781,000.00	2085
Single Family Housing	2,291.00	Dwelling Unit	353.23	4,123,800.00	6117
Regional Shopping Center	185.00	1000sqft	21.06	185,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2032
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	236.9	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

Project Characteristics - SMUD intensity factor provided by SMUD for 2030.

Land Use - See Appendix for land use assumptions

Construction Phase - Operational run only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Off-road Equipment - Operation only

Trips and VMT - Operation only

Grading -

Architectural Coating - Operation only

Vehicle Trips - Trip lengths and rates adjusted to match traffic study

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Energy consumption reduced by compliance margin for CALGreen compliance (30 percent for nonresidential and mid rise apartments, 53 percent for residential that includes solar)

Water And Wastewater - Water usage based on water demand forecasting

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	462,703.00	0.00

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,388,108.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	3,613,815.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	10,841,445.00	0.00
tblAreaCoating	Area_Residential_Exterior	3613815	3636090
tblAreaCoating	Area_Residential_Interior	10841445	10908270
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	NumDays	9,300.00	0.00
tblConstructionPhase	NumDays	600.00	0.00
tblConstructionPhase	NumDays	930.00	0.00
tblConstructionPhase	NumDays	660.00	0.00
tblConstructionPhase	NumDays	360.00	0.00
tblEnergyUse	T24E	511.12	240.23
tblEnergyUse	T24E	460.92	322.64
tblEnergyUse	T24E	2.05	1.44
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	4.98	3.49
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	3.26	2.28
tblEnergyUse	T24E	3.41	2.39
tblEnergyUse	T24E	678.97	319.12
tblEnergyUse	T24NG	9,411.72	4,423.51
tblEnergyUse	T24NG	7,061.10	4,942.77
tblEnergyUse	T24NG	14.60	10.22
tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	12.42	8.69
tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	4.49	3.14

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

tblEnergyUse	T24NG	23.39	16.37
tblEnergyUse	T24NG	23,147.69	10,879.41
tblFireplaces	NumberNoFireplace	449.00	410.00
tblFireplaces	NumberNoFireplace	2,291.00	2,331.00
tblLandUse	LotAcreage	9.53	30.18
tblLandUse	LotAcreage	3.42	11.72
tblLandUse	LotAcreage	2.88	22.19
tblLandUse	LotAcreage	0.82	2.35
tblLandUse	LotAcreage	0.34	5.80
tblLandUse	LotAcreage	28.06	44.94
tblLandUse	LotAcreage	20.55	34.07
tblLandUse	LotAcreage	743.83	353.23
tblLandUse	LotAcreage	4.25	21.06
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	VendorTripNumber	842.00	0.00
tblTripsAndVMT	WorkerTripNumber	2,830.00	0.00
tblTripsAndVMT	WorkerTripNumber	566.00	0.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CC_TL	7.50	6.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	6.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CNW_TL	8.50	7.00
tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	CW_TL	15.00	10.00

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	CW_TL	15.00	10.00
tblVehicleTrips	HO_TL	8.50	6.00
tblVehicleTrips	HO_TL	8.50	6.00
tblVehicleTrips	HO_TL	8.50	6.73
tblVehicleTrips	HS_TL	7.50	6.00
tblVehicleTrips	HS_TL	7.50	6.00
tblVehicleTrips	HS_TL	7.50	6.00
tblVehicleTrips	HW_TL	15.00	10.00
tblVehicleTrips	HW_TL	15.00	10.00
tblVehicleTrips	HW_TL	15.00	10.00
tblVehicleTrips	ST_TR	7.16	4.45
tblVehicleTrips	ST_TR	6.39	5.12
tblVehicleTrips	ST_TR	22.75	14.76
tblVehicleTrips	ST_TR	1.32	0.42
tblVehicleTrips	ST_TR	2.46	1.93
tblVehicleTrips	ST_TR	20.87	13.33
tblVehicleTrips	ST_TR	49.97	27.03
tblVehicleTrips	ST_TR	1.90	1.34
tblVehicleTrips	ST_TR	9.91	6.11
tblVehicleTrips	SU_TR	6.07	3.34
tblVehicleTrips	SU_TR	5.86	3.84
tblVehicleTrips	SU_TR	16.74	13.63
tblVehicleTrips	SU_TR	0.68	0.42
tblVehicleTrips	SU_TR	1.05	0.72
tblVehicleTrips	SU_TR	26.73	13.33

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

tblVehicleTrips	SU_TR	25.24	16.22
tblVehicleTrips	SU_TR	1.11	0.67
tblVehicleTrips	SU_TR	8.62	6.11
tblVehicleTrips	WD_TR	6.59	4.45
tblVehicleTrips	WD_TR	6.65	4.74
tblVehicleTrips	WD_TR	1.89	1.30
tblVehicleTrips	WD_TR	1.29	1.20
tblVehicleTrips	WD_TR	6.97	0.42
tblVehicleTrips	WD_TR	11.03	9.63
tblVehicleTrips	WD_TR	32.93	20.00
tblVehicleTrips	WD_TR	42.70	21.62
tblVehicleTrips	WD_TR	8.11	6.71
tblVehicleTrips	WD_TR	9.52	6.11
tblWater	IndoorWaterUseRate	29,254,157.50	42,542,453.39
tblWater	IndoorWaterUseRate	50,885,294.01	22,674,275.31
tblWater	IndoorWaterUseRate	3,636,360.00	1,639,745.37
tblWater	IndoorWaterUseRate	8,267,187.50	0.00
tblWater	IndoorWaterUseRate	73,803,938.85	18,058,222.56
tblWater	IndoorWaterUseRate	887,147.16	0.00
tblWater	IndoorWaterUseRate	13,703,416.47	10,961,445.57
tblWater	IndoorWaterUseRate	73,262,398.13	0.00
tblWater	IndoorWaterUseRate	149,267,872.70	132,360,768.10
tblWater	OutdoorWaterUseRate	18,442,838.43	26,820,015.24
tblWater	OutdoorWaterUseRate	32,079,859.27	14,294,530.78
tblWater	OutdoorWaterUseRate	52,460,923.83	56,896,191.41
tblWater	OutdoorWaterUseRate	9,350,640.00	4,217,067.92
tblWater	OutdoorWaterUseRate	45,234,672.20	11,067,969.08

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571
Energy	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.82 97	16,757.82 97	0.3212	0.3072	16,857.41 31
Mobile	27.1778	143.8560	336.8070	1.3827	165.0374	0.8578	165.8952	44.0676	0.7974	44.8650		140,981.4 594	140,981.4 594	5.6677		141,123.1 508
Total	192.6948	160.5146	633.7401	1.4818	165.0374	3.5309	168.5683	44.0676	3.4705	47.5381	0.0000	158,262.8 547	158,262.8 547	6.4885	0.3072	158,516.6 211

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	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571
Energy	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.82 97	16,757.82 97	0.3212	0.3072	16,857.41 31
Mobile	25.5540	135.1388	299.2885	1.1901	140.2818	0.7499	141.0317	37.4575	0.6970	38.1545		121,362.8 168	121,362.8 168	5.0493		121,489.0 496
Total	191.0710	151.7973	596.2216	1.2893	140.2818	3.4230	143.7048	37.4575	3.3701	40.8276	0.0000	138,644.2 121	138,644.2 121	5.8702	0.3072	138,882.5 199

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.84	5.43	5.92	12.99	15.00	3.06	14.75	15.00	2.89	14.12	0.00	12.40	12.40	9.53	0.00	12.39

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/8/2018	3/7/2018	5	0	
2	Site Preparation	Site Preparation	6/25/2020	6/24/2020	5	0	
3	Grading	Grading	11/11/2021	11/10/2021	5	0	
4	Building Construction	Building Construction	6/5/2025	6/4/2025	5	0	
5	Paving	Paving	1/27/2061	1/26/2061	5	0	
6	Architectural Coating	Architectural Coating	8/9/2063	8/8/2063	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating					
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

3.7 Architectural Coating - 2063

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Provide Traffic Calming Measures

Implement NEV Network

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	25.5540	135.1388	299.2885	1.1901	140.2818	0.7499	141.0317	37.4575	0.6970	38.1545		121,362.8168	121,362.8168	5.0493		121,489.0496
Unmitigated	27.1778	143.8560	336.8070	1.3827	165.0374	0.8578	165.8952	44.0676	0.7974	44.8650		140,981.4594	140,981.4594	5.6677		141,123.1508

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,999.85	1,999.85	1500.11	4,898,787	4,408,908
Apartments Mid Rise	3,701.94	3,998.72	2999.04	9,256,530	8,330,877
City Park	57.02	650.01	600.00	438,106	394,296
Elementary School	1,800.00	0.00	0.00	2,808,995	2,528,095
General Light Industry	15.02	15.02	15.02	42,623	38,361
General Office Building	3,998.86	801.43	298.98	6,738,873	6,064,986
Health Club	300.00	199.95	199.95	419,755	377,779
Regional Shopping Center	3,999.70	5,000.55	3000.70	7,011,695	6,310,525
Research & Development	999.79	199.66	99.83	1,775,120	1,597,608
Single Family Housing	14,000.30	14,000.30	14000.30	36,918,148	33,226,333
Total	30,872.47	26,865.49	22,713.92	70,308,631	63,277,768

4.3 Trip Type Information

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.00	6.00	6.00	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	6.00	6.00	46.50	12.50	41.00	86	11	3
City Park	10.00	6.00	7.00	33.00	48.00	19.00	66	28	6
Elementary School	10.00	6.00	7.00	65.00	30.00	5.00	63	25	12
General Light Industry	10.00	6.00	6.00	59.00	28.00	13.00	92	5	3
General Office Building	10.00	6.00	7.00	33.00	48.00	19.00	77	19	4
Health Club	10.00	6.00	7.00	16.90	64.10	19.00	52	39	9
Regional Shopping Center	15.00	6.00	7.00	16.30	64.70	19.00	54	35	11
Research & Development	10.00	6.00	7.00	33.00	48.00	19.00	82	15	3
Single Family Housing	10.00	6.00	6.73	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Apartments Mid Rise	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
City Park	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Elementary School	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Light Industry	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
General Office Building	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Health Club	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Regional Shopping Center	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Research & Development	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591
Single Family Housing	0.578082	0.034340	0.212238	0.105207	0.011464	0.004381	0.018498	0.025846	0.001862	0.001454	0.005431	0.000606	0.000591

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131
NaturalGas Unmitigated	1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	8746.9	0.0943	0.8061	0.3430	5.1500e-003		0.0652	0.0652		0.0652	0.0652		1,029.0472	1,029.0472	0.0197	0.0189	1,035.1623
Apartments Mid Rise	16325.6	0.1761	1.5045	0.6402	9.6000e-003		0.1216	0.1216		0.1216	0.1216		1,920.6609	1,920.6609	0.0368	0.0352	1,932.0744
City Park	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
Elementary School	3738.1	0.0403	0.3665	0.3078	2.2000e-003		0.0279	0.0279		0.0279	0.0279		439.7767	439.7767	8.4300e-003	8.0600e-003	442.3900
General Light Industry	2819.84	0.0304	0.2765	0.2322	1.6600e-003		0.0210	0.0210		0.0210	0.0210		331.7462	331.7462	6.3600e-003	6.0800e-003	333.7176
General Office Building	10660	0.1150	1.0451	0.8779	6.2700e-003		0.0794	0.0794		0.0794	0.0794		1,254.1152	1,254.1152	0.0240	0.0230	1,261.5678
Health Club	1183.15	0.0128	0.1160	0.0974	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003		139.1942	139.1942	2.6700e-003	2.5500e-003	140.0214
Regional Shopping Center	2062.88	0.0223	0.2022	0.1699	1.2100e-003		0.0154	0.0154		0.0154	0.0154		242.6914	242.6914	4.6500e-003	4.4500e-003	244.1336
Research & Development	11752.6	0.1267	1.1522	0.9679	6.9100e-003		0.0876	0.0876		0.0876	0.0876		1,382.6624	1,382.6624	0.0265	0.0254	1,390.8788
Single Family Housing	85152.5	0.9183	7.8474	3.3393	0.0501		0.6345	0.6345		0.6345	0.6345		10,017.9356	10,017.9356	0.1920	0.1837	10,077.4672
Total		1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	8.7469	0.0943	0.8061	0.3430	5.1500e-003		0.0652	0.0652		0.0652	0.0652		1,029.0472	1,029.0472	0.0197	0.0189	1,035.1623
Apartments Mid Rise	16.3256	0.1761	1.5045	0.6402	9.6000e-003		0.1216	0.1216		0.1216	0.1216		1,920.6609	1,920.6609	0.0368	0.0352	1,932.0744
City Park	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
Elementary School	3.7381	0.0403	0.3665	0.3078	2.2000e-003		0.0279	0.0279		0.0279	0.0279		439.7767	439.7767	8.4300e-003	8.0600e-003	442.3900
General Light Industry	2.81984	0.0304	0.2765	0.2322	1.6600e-003		0.0210	0.0210		0.0210	0.0210		331.7462	331.7462	6.3600e-003	6.0800e-003	333.7176
General Office Building	10.66	0.1150	1.0451	0.8779	6.2700e-003		0.0794	0.0794		0.0794	0.0794		1,254.1152	1,254.1152	0.0240	0.0230	1,261.5678
Health Club	1.18315	0.0128	0.1160	0.0974	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003		139.1942	139.1942	2.6700e-003	2.5500e-003	140.0214
Regional Shopping Center	2.06288	0.0223	0.2022	0.1699	1.2100e-003		0.0154	0.0154		0.0154	0.0154		242.6914	242.6914	4.6500e-003	4.4500e-003	244.1336
Research & Development	11.7526	0.1267	1.1522	0.9679	6.9100e-003		0.0876	0.0876		0.0876	0.0876		1,382.6624	1,382.6624	0.0265	0.0254	1,390.8788
Single Family Housing	85.1525	0.9183	7.8474	3.3393	0.0501		0.6345	0.6345		0.6345	0.6345		10,017.9356	10,017.9356	0.1920	0.1837	10,077.4672
Total		1.5361	13.3165	6.9757	0.0838		1.0613	1.0613		1.0613	1.0613		16,757.8297	16,757.8297	0.3212	0.3072	16,857.4131

6.0 Area Detail

6.1 Mitigation Measures Area

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571
Unmitigated	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571

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	20.8196					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	134.4738					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.6875	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118		523.5656	523.5656	0.4997		536.0571
Total	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571

Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	20.8196					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	134.4738					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.6875	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118		523.5656	523.5656	0.4997		536.0571
Total	163.9809	3.3421	289.9574	0.0154		1.6118	1.6118		1.6118	1.6118	0.0000	523.5656	523.5656	0.4997	0.0000	536.0571

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Mather South TS Title 24 RPS Adjusted Operational - Sacramento County, Winter

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
