

Appendix D

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Construction Worker, Vendor, and Hauling Gasoline and Diesel Consumption

Phase	Daily Trips		Days	Total Trips			Trip Length			Ave. Daily Factor	Gasoline Usage (gallons)	Diesel Usage (gallons)
	Worker	Vendor		Worker	Vendor	Haul	Worker	Vendor	Haul			
Pre-Demolition Abatement	8	-	15	120	-	10	14.7	6.9	24	0.6	76	26
Demolition	15	-	44	660	-	2,008	14.7	6.9	11	0.6	417	2,430
Grading	60	-	65	3,900	-	13,750	14.7	6.9	24	0.6	2,464	36,304
Building Construction	150	112	484	72,600	54,208	-	14.7	6.9	0	0.6	45,862	41,148
Architectural Coatings	87	-	88	7,656	-	-	14.7	6.9	0	0.6	4,836	-
Paving	20	-	10	200	-	-	14.7	6.9	0	0.6	126	-
TOTAL	340	112	706	85,136	54,208	15,768					53,782	79,908

1. Fuel efficiency for 2018 is based on 23.27 miles per gallon (mpg) for gasoline and 9.09 mpg for diesel per EMFAC2017 Emissions Inventory (See attached).

Electricity Usage from Watering During Construction (AQMD Rule 403: Fugitive Dust)

Phase	Duration of Phase (days)	Watering Days	Ave. Daily Acreage Disturbed		Water Use (gallons)		Electricity (kWhr)
Pre-Demolition Abatement	15						
Demolition	44	44	1.5		199,320		1,938.79
Grading	65	65	3.15		618,345		6,014.64
Building Construction	484		0		-		-
Architectural Coating	88		0		-		-
Paving	10		0		-		-
TOTAL	706					TOTAL	7,953.43

Notes:

1. The duration of the phases are provided in working days, assuming an average of 22 working days per month.
2. Water Application Rate= 3,020 gal/acre/day per Air & Waste Management Association Air Pollution Engineering Manual (1992 Edition). Water application during the building demolition phase excludes surface parking lot, which would be removed during the grading phase.
3. kWhr equivalent = 0.01 kWhr
4. Electricity consumption per water useage = 0.009727 kWhr/gallon.

Total Diesel Usage From Construction Equipment

Phase	Off-Road Equipment Type	Units	Hours	HP	Load Factor	Ave. Daily Factor	Number of Days	Diesel Usage (gallons)
Pre-Demolition Abatement	Forklift	1	8	247	0.40	0.6	15	356
Pre-Demolition Abatement	Generator Set	2	8	97	0.37	0.6	15	258
Demolition	Concrete/Industrial Saws	1	8	81	0.73	0.6	44	624
Demolition	Excavator	3	8	158	0.38	0.6	44	1902
Demolition	Rubber Tired Dozer	2	8	247	0.40	0.6	44	2087
Grading	Bore/Drill Rig	1	6	221	0.50	0.6	65	1293
Grading	Excavator	3	8	158	0.38	0.6	65	2810
Grading	Rubber Tired Dozer	1	8	247	0.40	0.6	65	1541
Grading	Rubber Tired Loader	2	6	203	0.36	0.6	65	1710
Grading	Tractor/Loader/Backhoe	3	8	97	0.37	0.6	65	1680
Grading	Grader	1	8	187	0.41	0.6	65	1196
Building Construction	Cement and Mortar Mixers	1	7	9	0.56	0.6	10	11
Building Construction	Concrete/Industrial Saws	1	6	81	0.73	0.6	44	468
Building Construction	Cranes	1	7	231	0.29	0.6	484	6809
Building Construction	Forklifts	3	8	89	0.20	0.6	484	6203
Building Construction	Tractor/Loader/Backhoe	3	7	97	0.37	0.6	484	10944
Building Construction	Generator Sets	1	8	84	0.74	0.6	484	7221
Building Construction	Welders	1	8	46	0.45	0.6	484	2405
Architectural Coating	Air Compressors	3	6	78	0.48	0.6	88	1779
Architectural Coating	Aerial Lifts	3	6	63	0.31	0.6	88	928
Paving	Cement and Mortar Mixers	2	6	9	0.56	0.6	10	18
Paving	Pavers	1	8	130	0.42	0.6	10	131
Paving	Rollers	2	6	80	0.38	0.6	10	109
Paving	Paving Equipment	2	6	132	0.36	0.6	10	171
Paving	Tractor/Loader/Backhoe	1	8	97	0.37	0.6	10	86
							TOTAL	52,125

Sources: Equipment usage (hours and total days), horsepower (HP) and load factors are per the CalEEMod Worksheets; Fuel rate calculation is per the SCAQMD Air Quality Handbook (1993) Table A9-3E.

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: Air District

Region: SOUTH COAST AQMD

Calendar Year: 2018

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
SOUTH COAST AQMD	2018	HHDT	Aggregated	Aggregated	GAS	116.658885	7932.54671	2334.11097	2.1255303
SOUTH COAST AQMD	2018	HHDT	Aggregated	Aggregated	DSL	98119.6509	12181195.8	994977.349	1958.12761
SOUTH COAST AQMD	2018	HHDT	Aggregated	Aggregated	NG	3771.37224	153745.743	14708.3517	72.2745324
SOUTH COAST AQMD	2018	LDA	Aggregated	Aggregated	GAS	6146955.21	249953855	28983463	8956.57762
SOUTH COAST AQMD	2018	LDA	Aggregated	Aggregated	DSL	42664.1491	1765710.48	200135.685	40.3446343
SOUTH COAST AQMD	2018	LDA	Aggregated	Aggregated	ELEC	65736.2229	2506833.57	332136.103	0
SOUTH COAST AQMD	2018	LDT1	Aggregated	Aggregated	GAS	649430.692	24864909.3	2958937.78	1037.72893
SOUTH COAST AQMD	2018	LDT1	Aggregated	Aggregated	DSL	535.196012	12955.0362	1880.49718	0.59621695
SOUTH COAST AQMD	2018	LDT1	Aggregated	Aggregated	ELEC	1354.35891	44165.6922	6482.75172	0
SOUTH COAST AQMD	2018	LDT2	Aggregated	Aggregated	GAS	2097956.67	82796725.4	9796352.97	3842.86876
SOUTH COAST AQMD	2018	LDT2	Aggregated	Aggregated	DSL	8440.92772	397729.705	41938.2782	12.5267666
SOUTH COAST AQMD	2018	LDT2	Aggregated	Aggregated	ELEC	7321.96845	263725.648	37505.6564	0
SOUTH COAST AQMD	2018	LHDT1	Aggregated	Aggregated	GAS	181566.166	6794449.06	2705065.33	668.292013
SOUTH COAST AQMD	2018	LHDT1	Aggregated	Aggregated	DSL	93782.3244	3920423.2	1179663.66	192.723427
SOUTH COAST AQMD	2018	LHDT2	Aggregated	Aggregated	GAS	29512.3422	1067389.34	439689.926	120.56157
SOUTH COAST AQMD	2018	LHDT2	Aggregated	Aggregated	DSL	36459.8039	1502063.76	458618.467	81.633909
SOUTH COAST AQMD	2018	MCY	Aggregated	Aggregated	GAS	255272.629	1890353.92	510545.259	51.755387
SOUTH COAST AQMD	2018	MDV	Aggregated	Aggregated	GAS	1531411.72	57023100.9	7068500.93	3203.60787
SOUTH COAST AQMD	2018	MDV	Aggregated	Aggregated	DSL	21209.9553	937835.874	104986.244	38.3448751
SOUTH COAST AQMD	2018	MDV	Aggregated	Aggregated	ELEC	824.589307	28701.8973	4165.95488	0
SOUTH COAST AQMD	2018	MH	Aggregated	Aggregated	GAS	37241.1433	350266.686	3725.60398	70.9136797
SOUTH COAST AQMD	2018	MH	Aggregated	Aggregated	DSL	11230.4897	114072.735	1123.04897	11.1283539
SOUTH COAST AQMD	2018	MHDT	Aggregated	Aggregated	GAS	25183.8318	1409870.99	503878.107	288.747851
SOUTH COAST AQMD	2018	MHDT	Aggregated	Aggregated	DSL	114447.303	7073365.5	1133397.65	722.496144
SOUTH COAST AQMD	2018	OBUS	Aggregated	Aggregated	GAS	6022.66339	279706.039	120501.449	57.7211485
SOUTH COAST AQMD	2018	OBUS	Aggregated	Aggregated	DSL	4015.4237	290519.021	39374.3197	37.3401008
SOUTH COAST AQMD	2018	SBUS	Aggregated	Aggregated	GAS	2037.99504	88267.0492	8151.98017	9.93660148
SOUTH COAST AQMD	2018	SBUS	Aggregated	Aggregated	DSL	6459.4009	204614.68	74540.5908	27.8580481
SOUTH COAST AQMD	2018	UBUS	Aggregated	Aggregated	GAS	925.798791	87200.8878	3703.19516	18.6540044
SOUTH COAST AQMD	2018	UBUS	Aggregated	Aggregated	DSL	35.6158712	3541.58003	142.463485	0.60885275
SOUTH COAST AQMD	2018	UBUS	Aggregated	Aggregated	ELEC	18.1169389	1343.18541	72.4677554	0
SOUTH COAST AQMD	2018	UBUS	Aggregated	Aggregated	NG	5246.57552	578032.687	20986.3021	143.902513
					TOTAL		458594603		MPG
					GAS	0.93026395	426614027		18329.491 23.27
					DSL	0.06193712	28404027.4		3123.72894 9.09

**3rd and Fairfax
Existing Operational Fuel Calculations**

Land Use	Units	Average Daily Trip Rate			Annual VMT
		Weekday	Sat	Sunday	
Regional Shopping Center	151,048 sf	6207.00	7501.00	3924.00	11,587,264
		6207.00	7501.00	3924.00	11,587,264

Fleet Mix	
LDA	0.549559
LDT1	0.042893
LDT2	0.201564
MDV	0.118533
LHD1	0.015569
LHD2	0.005846
MHD	0.021394
HHD	0.034255
OBUS	0.002099
UBUS	0.001828
MCY	0.004855
SBUS	0.000709
MH	0.000896

	Fleet Factor	VMT	Fuel (gallons)
Diesel	0.06	695,236	76,484
Gas	0.94	10,892,028	468,072
		11,587,264	544,556

Notes:

1. Fuel efficiency for 2018 is based on 23.27 miles per gallon (mpg) for gasoline and 9.09 mpg for diesel per EMFAC2017 Emissions Inventory (See attached).
2. LADOT VMT Calculator only provides trips/VMT for weekday trips. In order to accurately include VMT from weekend trips, the weekend trips provided by LLG utilizing ITE trip rates was proportionately calculated based on the weekday trips to estimate total VMT. Further, since pass-by-trips are not factored into LADOT's VMT Calculator, an estimate of pass-by-trips was incorporated to account for these trips in alignment with CalEEMod's methodology.
3. Fleet Mix provided by EMFAC 2017 Inventory, Los Angeles County, 2018 (see attached).

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: Air District

Region: SOUTH COAST AQMD

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption	
SOUTH COAST AQMD	2023	HHDT	Aggregated	Aggregated	GAS	75.1044294	8265.09709	1502.68942	1.93628614	
SOUTH COAST AQMD	2023	HHDT	Aggregated	Aggregated	DSL	109818.675	13648007.9	1133618.4	1911.53019	
SOUTH COAST AQMD	2023	HHDT	Aggregated	Aggregated	NG	5312.03464	216378.945	20716.9351	95.7461104	
SOUTH COAST AQMD	2023	LDA	Aggregated	Aggregated	GAS	6635002.29	252710543	31352477.5	7971.24403	
SOUTH COAST AQMD	2023	LDA	Aggregated	Aggregated	DSL	62492.9796	2469815.67	297086.558	49.3916685	
SOUTH COAST AQMD	2023	LDA	Aggregated	Aggregated	ELEC	150700.397	6237105.78	751566.02	0	
SOUTH COAST AQMD	2023	LDT1	Aggregated	Aggregated	GAS	758467.648	27812996.5	3504562.53	1023.91301	
SOUTH COAST AQMD	2023	LDT1	Aggregated	Aggregated	DSL	360.779914	8408.61821	1256.87952	0.36645948	
SOUTH COAST AQMD	2023	LDT1	Aggregated	Aggregated	ELEC	7122.93373	303507.533	35798.1893	0	
SOUTH COAST AQMD	2023	LDT2	Aggregated	Aggregated	GAS	2285150.14	85272415.5	10723314.7	3338.79831	
SOUTH COAST AQMD	2023	LDT2	Aggregated	Aggregated	DSL	15594.6831	650362.807	76635.8271	17.7381261	
SOUTH COAST AQMD	2023	LDT2	Aggregated	Aggregated	ELEC	28809.6374	917592.842	145405.445	0	
SOUTH COAST AQMD	2023	LHDT1	Aggregated	Aggregated	GAS	174910.385	6216642.74	2605904.12	583.385174	
SOUTH COAST AQMD	2023	LHDT1	Aggregated	Aggregated	DSL	125545.082	4994753.05	1579199.2	228.177929	
SOUTH COAST AQMD	2023	LHDT2	Aggregated	Aggregated	GAS	30102.7532	1034569.1	448486.17	111.575386	
SOUTH COAST AQMD	2023	LHDT2	Aggregated	Aggregated	DSL	50003.1312	1935029.91	628976.486	97.8481162	
SOUTH COAST AQMD	2023	MCY	Aggregated	Aggregated	GAS	305044.514	2104623.66	610089.028	57.849018	
SOUTH COAST AQMD	2023	MDV	Aggregated	Aggregated	GAS	1589862.7	55684188.4	7354859.88	2693.88353	
SOUTH COAST AQMD	2023	MDV	Aggregated	Aggregated	DSL	36128.1019	1425691.37	176566.911	50.6528149	
SOUTH COAST AQMD	2023	MDV	Aggregated	Aggregated	ELEC	16376.6765	537591.744	83475.9529	0	
SOUTH COAST AQMD	2023	MH	Aggregated	Aggregated	GAS	34679.5054	330042.92	3469.33772	63.2629512	
SOUTH COAST AQMD	2023	MH	Aggregated	Aggregated	DSL	13122.6939	124302.024	1312.26939	11.6303183	
SOUTH COAST AQMD	2023	MHDT	Aggregated	Aggregated	GAS	25624.3151	1363694.41	512691.296	265.206056	
SOUTH COAST AQMD	2023	MHDT	Aggregated	Aggregated	DSL	122124.488	8120623.35	1221858.45	724.769587	
SOUTH COAST AQMD	2023	OBUS	Aggregated	Aggregated	GAS	5955.29164	245774.017	119153.475	48.0775069	
SOUTH COAST AQMD	2023	OBUS	Aggregated	Aggregated	DSL	4286.94009	333969.818	41558.2893	38.1883807	
SOUTH COAST AQMD	2023	SBUS	Aggregated	Aggregated	GAS	2783.64307	112189.609	11134.5723	12.1947469	
SOUTH COAST AQMD	2023	SBUS	Aggregated	Aggregated	DSL	6671.82572	210853.911	76991.9437	27.4441124	
SOUTH COAST AQMD	2023	UBUS	Aggregated	Aggregated	GAS	957.768618	89782.6317	3831.07447	17.6241633	
SOUTH COAST AQMD	2023	UBUS	Aggregated	Aggregated	DSL	13.000461	1416.62157	52.0018438	0.23950051	
SOUTH COAST AQMD	2023	UBUS	Aggregated	Aggregated	ELEC	16.1169389	1320.16326	64.4677554	0	
SOUTH COAST AQMD	2023	UBUS	Aggregated	Aggregated	NG	5428.20153	597439.019	21712.8061	151.080732	
					TOTAL		475719898			MPG
					GAS	0.91016947	432985727		16188.9502	26.75
					DSL	0.07130926	33923235.1		3157.9772	10.74

**3rd and Fairfax Mixed-Use Project
Operational Fuel Calculations**

Land Use	Units	Average Daily Trip Rate			Annual VMT
		Weekday	Sat	Sunday	
Apartments (Mid Rise)	331 DU				-
Enclosed Parking (with Elevator)	982 spaces				-
Quality Restaurant	7,500 sf	6,571	9,479	8,705	-
Commercial/Retail	13,412				-
Supermarket	63,082				-
Pass-by-Trips	--	2,384	3,806	3,486	-
TOTAL		8,955	13,285	12,191	17,828,809

Fleet Mix	
LDA	0.549559
LDT1	0.042893
LDT2	0.201564
MDV	0.118533
LHD1	0.015569
LHD2	0.005846
MHD	0.021394
HHH	0.034255
OBUS	0.002099
UBUS	0.001828
MCY	0.004855
SBUS	0.000709
MH	0.000896

	Fleet Factor	VMT	Fuel (gallons)
Diesel	0.06	1,069,729	99,602
Gas	0.94	16,759,080	626,508
		17,828,809	

Notes:

1. Fuel efficiency for 2023 (the Project's buildout year) is based on 26.75 miles per gallon (mpg) for gasoline and 10.74 mpg for diesel per EMFAC2017 Emissions Inventory (See attached).
2. LADOT VMT Calculator only provides trips/VMT for weekday trips. In order to accurately include VMT from weekend trips, the weekend trips provided by LLG utilizing ITE trip rates was proportionately calculated based on the weekday trips to estimate total VMT. Further, since pass-by-trips are not factored into LADOT's VMT Calculator, an estimate of pass-by-trips was incorporated to account for these trips in alignment with CalEEMod's methodology.
3. Fleet Mix provided by EMFAC 2017 Inventory, Los Angeles County, 2023.

**3rd and Fairfax Mixed-Use Project
Operational Fuel Calculations - With Mitigation Scenario**

Land Use	Units	Average Daily Trip Rate			Annual VMT
		Weekday	Sat	Sunday	
Apartments (Mid Rise)	331 DU	6,143	8,862	8,138	16,574,282
Enclosed Parking (with Elevator)	982 spaces				
Quality Restaurant	7,500 sf				
Commercial/Retail	13,412				
Supermarket	63,082	2,384	3,806	3,486	99,902
Pass-by-Trips	--				
TOTAL		8,527	12,668	11,624	16,674,184

Fleet Mix	
LDA	0.549559
LDT1	0.042893
LDT2	0.201564
MDV	0.118533
LHD1	0.015569
LHD2	0.005846
MHD	0.021394
HHD	0.034255
OBUS	0.002099
UBUS	0.001828
MCY	0.004855
SBUS	0.000709
MH	0.000896

	Fleet Factor	VMT	Fuel (gallons)
Diesel	0.06	1,000,451	93,152
Gas	0.94	15,673,733	585,934
		16,674,184	

Notes:

- Fuel efficiency for 2023 (the Project's buildout year) is based on 26.75 miles per gallon (mpg) for gasoline and 10.74 mpg for diesel per EMFAC2017 Emissions Inventory (See attached).
- LADOT VMT Calculator only provides trips/VMT for weekday trips. In order to accurately include VMT from weekend trips, the weekend trips provided by LLG utilizing ITE trip rates was proportionately calculated based on the weekday trips to estimate total VMT. Further, since pass-by-trips are not factored into LADOT's VMT Calculator, an estimate of pass-by-trips was incorporated to account for these trips in alignment with CalEEMod's methodology.
- Fleet Mix provided by EMFAC 2017 Inventory, Los Angeles County, 2023.

Retail Diesel Sales by County

(Millions of Gallons)

County	2014#		2015#		2016#		2017#		2018#	
	Survey Responses	Estimated Totals	Survey Responses	Estimated Totals	Survey Responses	Estimated Totals	Survey Responses	Estimated Totals	Survey Responses	Estimated Totals
Alameda	19	27	38	49	47	54	51	58	56	62
Amador	1	2	1	2	2	2	2	2	2	3
Butte	8	10	9	11	11	13	11	13	12	13
Calaveras	1	2	2	2	3	3	3	3	2	3
Colusa	2	2	3	4	4	4	2	3	4	4
Contra Costa	12	17	19	24	23	26	24	28	31	34
Del Norte	1	1	1	2	2	2	2	2	2	2
El Dorado	4	6	7	9	8	9	8	10	8	9
Fresno	18	25	39	50	40	46	40	45	46	51
Glenn	4	5	5	6	12	14	16	19	16	17
Humboldt	4	5	10	13	13	14	8	9	7	8
Imperial	8	11	9	11	14	16	11	12	20	22
Inyo	3	3	3	4	3	4	3	4	3	3
Kern	124	171	125	160	131	149	107	121	97	108
Kings	4	6	7	9	5	6	7	7	8	9
Lake	2	3	3	3	1	1	3	3	3	4
Lassen	1	2	3	3	4	4	1	1	1	1
Los Angeles	194	267	257	328	273	309	267	301	228	253
Madera	22	31	26	33	28	31	29	33	28	31
Marin	2	2	2	3	4	4	4	4	3	3
Mariposa	2	2	1	1	1	2	1	1	1	1
Mendocino	4	5	6	7	9	10	6	6	5	6
Merced	49	68	54	69	59	66	38	42	35	39
Mono	1	1	1	1	1	1	1	1	1	1
Monterey	13	18	23	29	24	28	24	27	24	26
Napa	2	3	6	8	6	7	6	7	6	7
Nevada	4	6	7	8	8	9	8	9	7	8
Orange	37	51	46	59	52	59	54	61	49	55
Placer	10	13	13	16	15	17	15	17	16	17
Plumas	1	1	1	1	1	1	1	2	1	1
Riverside	100	138	119	152	128	145	131	148	119	132
Sacramento	21	29	28	36	38	42	42	48	41	45
San Bernardino	152	210	198	253	223	252	235	265	176	195
San Diego	67	93	87	111	93	105	92	103	92	103
San Francisco	1	2	5	6	6	6	5	6	5	5
San Joaquin	86	119	102	131	116	131	111	126	105	117
San Luis Obispo	12	17	19	24	20	23	19	21	20	22
San Mateo	4	6	15	19	13	14	15	17	16	17
Santa Barbara	13	18	20	26	22	25	17	19	21	24
Santa Clara	25	35	36	47	30	34	32	36	43	48
Santa Cruz	2	3	5	6	5	6	6	6	6	7
Shasta	13	18	21	27	21	24	22	25	21	24
Siskiyou	16	20	20	26	19	22	18	21	16	17
Solano	8	11	14	18	17	19	22	24	23	25
Sonoma	12	17	15	20	20	23	20	23	20	22
Stanislaus	20	27	26	33	20	22	30	34	32	36
Sutter	2	3	4	5	5	6	3	4	4	5
Tehama	25	35	37	48	35	39	34	38	18	20
Tulare	31	43	34	43	37	42	37	41	31	34
Tuolumne	2	2	2	3	2	3	3	3	3	3
Ventura	25	34	27	34	29	32	32	36	30	33
Yolo	29	40	27	35	32	37	27	30	25	28
Yuba	2	3	2	3	4	5	8	9	11	12
Other Counties*	1	2	2	2	3	3	3	3	2	2
Total	1,226	1,691	1,592	2,033	1,742	1,971	1,717	1,937	1,602	1,777

* 2012-2018 data are not directly comparable to other years since an improved methodology is used, but is within 5 percent compared to the previous methodology.

* Other Counties include Alpine, Modoc, San Benito, Sierra and Trinity.

Note: Non-Retail diesel sales, which comprise approximately 52% of all diesel sales, are not reported in this chart.

Source: https://ww2.energy.ca.gov/almanac/transportation_data/gasoline/piira_retail_survey.html

Retail Gasoline Sales by County

(Millions of Gallons)

County	2014 [#]		2015 [#]		2016 [#]		2017 [#]		2018 [#]	
	Survey Responses	Estimated Totals	Survey Responses	Estimated Totals	Survey Responses	Estimated Totals	Survey Responses	Estimated Totals	Survey Responses	Estimated Totals
Alameda	341	491	432	542	518	582	521	583	495	569
Amador	11	15	10	13	12	14	13	15	14	17
Butte	59	85	62	78	74	83	78	87	75	86
Calaveras	10	14	11	14	13	15	14	15	13	15
Colusa	7	10	7	9	10	11	11	12	11	13
Contra Costa	272	392	303	380	384	431	385	430	346	397
Del Norte	5	7	5	6	6	7	6	7	6	7
El Dorado	36	52	65	81	72	81	73	82	66	76
Fresno	209	300	264	331	318	358	328	367	320	368
Glenn	11	16	13	16	15	17	17	18	15	17
Humboldt	31	44	47	59	54	61	49	55	51	58
Imperial	58	83	63	79	77	86	74	83	78	89
Inyo	12	17	14	18	16	18	16	18	16	18
Kern	267	384	299	375	362	407	349	390	345	396
Kings	31	45	41	51	50	57	54	60	52	60
Lake	17	25	19	23	19	21	19	21	20	23
Lassen	6	8	7	9	7	8	5	6	4	5
Los Angeles	2,606	3,749	2,762	3,465	3,184	3,577	3,272	3,659	3,169	3,638
Madera	31	45	35	44	52	59	56	62	49	57
Marin	52	75	83	105	91	102	90	101	71	82
Mariposa	6	9	5	6	7	8	5	6	6	7
Mendocino	28	40	32	40	37	42	34	38	35	40
Merced	58	83	84	105	101	114	105	117	115	132
Mono	6	8	6	7	7	8	5	5	6	7
Monterey	87	126	147	184	157	177	155	174	157	181
Napa	27	39	50	63	50	57	47	53	53	61
Nevada	19	27	31	40	36	40	35	39	33	38
Orange	1,018	1,465	1,092	1,370	1,224	1,375	1,236	1,382	1,222	1,402
Placer	118	170	167	209	181	204	182	203	179	206
Plumas	5	8	5	7	5	5	5	6	5	6
Riverside	702	1,010	828	1,039	921	1,035	941	1,052	916	1,052
Sacramento	308	442	465	584	534	600	535	599	511	586
San Benito	10	14	12	15	15	17	18	20	15	17
San Bernardino	659	948	725	909	899	1,010	888	993	862	990
San Diego	940	1,352	1,123	1,408	1,221	1,372	1,231	1,377	1,208	1,387
San Francisco	71	102	107	134	119	134	120	134	105	120
San Joaquin	217	312	287	360	303	340	310	347	293	336
San Luis Obispo	101	145	117	147	127	142	127	142	131	150
San Mateo	159	229	243	304	289	325	291	326	264	304
Santa Barbara	124	178	148	186	161	181	152	170	167	191
Santa Clara	460	661	580	727	638	717	613	685	560	643
Santa Cruz	53	77	77	96	85	95	84	94	78	90
Shasta	55	79	76	95	73	82	83	92	76	87
Siskiyou	10	14	21	27	24	27	26	29	25	28
Solano	116	167	160	201	187	210	194	217	188	216
Sonoma	146	210	160	201	186	209	186	208	167	192
Stanislaus	159	229	201	252	217	244	227	253	212	244
Sutter	17	24	30	38	35	39	35	39	35	40
Tehama	18	26	24	30	25	29	26	29	27	31
Trinity	3	4	3	4	4	5	4	5	4	4
Tulare	107	155	114	143	136	152	149	167	147	168
Tuolumne	14	21	18	23	21	23	22	25	22	25
Ventura	249	358	256	321	294	330	302	338	298	342
Yolo	63	90	82	103	98	110	101	113	96	110
Yuba	14	20	24	30	32	36	30	34	40	46
Other Counties [*]	1	2	2	2	2	2	2	2	1	1
Total	10,220	14,701	12,044	15,108	13,785	15,491	13,936	15,584	13,475	15,471

[#] 2012 to 2018 data are not directly comparable to other years since an improved methodology is used, but is within 5 percent compared to the previous methodology.

^{*} Other Counties include Alpine, Modoc and Sierra.

3rd and Fairfax Mixed-Use Project - Existing Conditions - South Coast AQMD Air District, 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
High Turnover (Sit Down	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
User Defined Commercial	16.60	6.90	6.90	0.00	100.00	0.00	100	0	0
User Defined Parking	0.00	0.10	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High Turnover (Sit Down Restaurant)	0.544547	0.044708	0.198656	0.126890	0.018261	0.005879	0.019662	0.030939	0.001958	0.002113	0.004656	0.000702	0.001029
Regional Shopping Center	0.544547	0.044708	0.198656	0.126890	0.018261	0.005879	0.019662	0.030939	0.001958	0.002113	0.004656	0.000702	0.001029
User Defined Commercial	0.544547	0.044708	0.198656	0.126890	0.018261	0.005879	0.019662	0.030939	0.001958	0.002113	0.004656	0.000702	0.001029
User Defined Parking	0.544547	0.044708	0.198656	0.126890	0.018261	0.005879	0.019662	0.030939	0.001958	0.002113	0.004656	0.000702	0.001029

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

3rd and Fairfax Mixed-Use Project - Existing Conditions - South Coast AQMD Air District, 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	1,452.3533	1,452.3533	0.0343	7.1000e-003	1,455.3257
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,452.3533	1,452.3533	0.0343	7.1000e-003	1,455.3257
NaturalGas Mitigated	9.1100e-003	0.0828	0.0696	5.0000e-004		6.3000e-003	6.3000e-003		6.3000e-003	6.3000e-003	0.0000	90.1770	90.1770	1.7300e-003	1.6500e-003	90.7128
NaturalGas Unmitigated	9.1100e-003	0.0828	0.0696	5.0000e-004		6.3000e-003	6.3000e-003		6.3000e-003	6.3000e-003	0.0000	90.1770	90.1770	1.7300e-003	1.6500e-003	90.7128

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					
High Turnover (Sit Down Restaurant)	1.42602e+006	7.6900e-003	0.0699	0.0587	4.2000e-004		5.3100e-003	5.3100e-003		5.3100e-003	5.3100e-003	0.0000	76.0978	76.0978	1.4600e-003	1.4000e-003	76.5501
Regional Shopping Center	263833	1.4200e-003	0.0129	0.0109	8.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	14.0791	14.0791	2.7000e-004	2.6000e-004	14.1628
User Defined Commercial	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
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		9.1100e-003	0.0828	0.0696	5.0000e-004		6.2900e-003	6.2900e-003		6.2900e-003	6.2900e-003	0.0000	90.1770	90.1770	1.7300e-003	1.6600e-003	90.7128

3rd and Fairfax Mixed-Use Project - Existing Conditions - South Coast AQMD Air District, 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					
High Turnover (Sit Down Restaurant)	1.42602e+006	7.6900e-003	0.0699	0.0587	4.2000e-004		5.3100e-003	5.3100e-003		5.3100e-003	5.3100e-003	0.0000	76.0978	76.0978	1.4600e-003	1.4000e-003	76.5501
Regional Shopping Center	263833	1.4200e-003	0.0129	0.0109	8.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	14.0791	14.0791	2.7000e-004	2.6000e-004	14.1628
User Defined Commercial	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
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		9.1100e-003	0.0828	0.0696	5.0000e-004		6.2900e-003	6.2900e-003		6.2900e-003	6.2900e-003	0.0000	90.1770	90.1770	1.7300e-003	1.6600e-003	90.7128

3rd and Fairfax Mixed-Use Project - Existing Conditions - South Coast AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High Turnover (Sit Down Restaurant)	294027	163.7618	3.8700e-003	8.0000e-004	164.0970
Regional Shopping Center	2.31361e+006	1,288.5915	0.0304	6.3000e-003	1,291.2287
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000
Total		1,452.3533	0.0343	7.1000e-003	1,455.3257

3rd and Fairfax Mixed-Use Project - Existing Conditions - South Coast AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High Turnover (Sit Down Restaurant)	294027	163.7618	3.8700e-003	8.0000e-004	164.0970
Regional Shopping Center	2.31361e+006	1,288.5915	0.0304	6.3000e-003	1,291.2287
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000
Total		1,452.3533	0.0343	7.1000e-003	1,455.3257

6.0 Area Detail

6.1 Mitigation Measures Area

3rd and Fairfax Mixed-Use Project - Existing Conditions - South Coast AQMD Air District, 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	0.6160	2.0000e-005	1.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8000e-003	3.8000e-003	1.0000e-005	0.0000	4.0600e-003
Unmitigated	0.6160	2.0000e-005	1.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8000e-003	3.8000e-003	1.0000e-005	0.0000	4.0600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0700					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5458					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	1.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8000e-003	3.8000e-003	1.0000e-005	0.0000	4.0600e-003
Total	0.6160	2.0000e-005	1.9800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8000e-003	3.8000e-003	1.0000e-005	0.0000	4.0600e-003

3rd and Fairfax Mixed-Use Project - South Coast AQMD Air District, 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 Mid Rise	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Supermarket	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
User Defined Commercial	0.00	6.68	0.00	0.00	100.00	0.00	100	0	0
User Defined Parking	0.00	0.10	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Enclosed Parking with Elevator	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
High Turnover (Sit Down Restaurant)	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Regional Shopping Center	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Supermarket	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
User Defined Commercial	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
User Defined Parking	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

3rd and Fairfax Mixed-Use Project - South Coast AQMD Air District, 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	3,607.5709	3,607.5709	0.0852	0.0176	3,614.9541
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	3,627.1416	3,627.1416	0.0857	0.0177	3,634.5649
NaturalGas Mitigated	0.0334	0.2947	0.1893	1.8200e-003			0.0231	0.0231		0.0231	0.0000	330.6274	330.6274	6.3400e-003	6.0600e-003	332.5921
NaturalGas Unmitigated	0.0334	0.2947	0.1893	1.8200e-003			0.0231	0.0231		0.0231	0.0000	330.6274	330.6274	6.3400e-003	6.0600e-003	332.5921

3rd and Fairfax Mixed-Use Project - South Coast AQMD Air District, 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 Mid Rise	3.05081e+006	0.0165	0.1406	0.0598	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.8027	162.8027	3.1200e-003	2.9800e-003	163.7701
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.7307e+006	9.3300e-003	0.0848	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	92.3567	92.3567	1.7700e-003	1.6900e-003	92.9056
Regional Shopping Center	21995.7	1.2000e-004	1.0800e-003	9.1000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1738	1.1738	2.0000e-005	2.0000e-005	1.1808
Supermarket	1.39222e+006	7.5100e-003	0.0683	0.0573	4.1000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	74.2942	74.2942	1.4200e-003	1.3600e-003	74.7356
User Defined Commercial	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
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0334	0.2948	0.1893	1.8300e-003		0.0231	0.0231		0.0231	0.0231	0.0000	330.6274	330.6274	6.3300e-003	6.0500e-003	332.5921

3rd and Fairfax Mixed-Use Project - South Coast AQMD Air District, 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 Mid Rise	3.05081e+006	0.0165	0.1406	0.0598	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.8027	162.8027	3.1200e-003	2.9800e-003	163.7701
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.7307e+006	9.3300e-003	0.0848	0.0713	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003	0.0000	92.3567	92.3567	1.7700e-003	1.6900e-003	92.9056
Regional Shopping Center	21995.7	1.2000e-004	1.0800e-003	9.1000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1738	1.1738	2.0000e-005	2.0000e-005	1.1808
Supermarket	1.39222e+006	7.5100e-003	0.0683	0.0573	4.1000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	74.2942	74.2942	1.4200e-003	1.3600e-003	74.7356
User Defined Commercial	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
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0334	0.2948	0.1893	1.8300e-003		0.0231	0.0231		0.0231	0.0231	0.0000	330.6274	330.6274	6.3300e-003	6.0500e-003	332.5921

3rd and Fairfax Mixed-Use Project - South Coast AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.31079e+006	730.0577	0.0172	3.5700e-003	731.5518
Enclosed Parking with Elevator	2.33462e+006	1,300.2958	0.0307	6.3500e-003	1,302.9570
High Turnover (Sit Down Restaurant)	331050	184.3821	4.3500e-003	9.0000e-004	184.7595
Regional Shopping Center	181062	100.8446	2.3800e-003	4.9000e-004	101.0510
Supermarket	2.35485e+006	1,311.5615	0.0310	6.4100e-003	1,314.2457
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000
Total		3,627.1416	0.0857	0.0177	3,634.5649

3rd and Fairfax Mixed-Use Project - South Coast AQMD Air District, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.27565e+006	710.4870	0.0168	3.4700e-003	711.9411
Enclosed Parking with Elevator	2.33462e+006	1,300.2958	0.0307	6.3500e-003	1,302.9570
High Turnover (Sit Down Restaurant)	331050	184.3821	4.3500e-003	9.0000e-004	184.7595
Regional Shopping Center	181062	100.8446	2.3800e-003	4.9000e-004	101.0510
Supermarket	2.35485e+006	1,311.5615	0.0310	6.4100e-003	1,314.2457
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
User Defined Parking	0	0.0000	0.0000	0.0000	0.0000
Total		3,607.5709	0.0852	0.0176	3,614.9541

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

3rd and Fairfax Project - Construction Trailer Electricity Consump. - South Coast AQMD Air District, Annual

**3rd and Fairfax Project - Construction Trailer Electricity Consump.
South Coast AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Temporary Construction Trailer / Management Office

Land Use - This run to estimate electricity use for portable office trailer during construction. Assumes a 1,000 sf construction office trailer.

Construction Phase - IGNORE CONSTRUCTION EMISSIONS FOR THIS RUN

Vehicle Trips - IGNORE MOBILE EMISSIONS FOR THIS RUN.

Energy Use - For conservative estimate, assumes non-Title 24 energy use for temporary office trailer.

3rd and Fairfax Project - Construction Trailer Electricity Consump. - South Coast AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	PhaseEndDate	6/22/2021	1/14/2021
tblConstructionPhase	PhaseEndDate	6/8/2021	1/7/2021
tblConstructionPhase	PhaseStartDate	6/16/2021	1/8/2021
tblConstructionPhase	PhaseStartDate	1/20/2021	1/1/2021
tblEnergyUse	LightingElect	4.63	3.77
tblEnergyUse	T24E	5.99	4.60
tblEnergyUse	T24NG	12.05	10.02

2.0 Emissions Summary

3rd and Fairfax Project - Construction Trailer Electricity Consump. - South Coast AQMD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	0.0309	0.0309
		Highest	0.0309	0.0309

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	4.0800e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	7.7905	7.7905	1.8000e-004	5.0000e-005	7.8086
Mobile	2.5900e-003	0.0145	0.0347	1.3000e-004	0.0103	1.0000e-004	0.0104	2.7500e-003	1.0000e-004	2.8400e-003	0.0000	11.6414	11.6414	5.8000e-004	0.0000	11.6558
Waste						0.0000	0.0000		0.0000	0.0000	0.1888	0.0000	0.1888	0.0112	0.0000	0.4677
Water						0.0000	0.0000		0.0000	0.0000	0.0564	1.9630	2.0194	5.8400e-003	1.5000e-004	2.2090
Total	6.7300e-003	0.0150	0.0352	1.3000e-004	0.0103	1.4000e-004	0.0104	2.7500e-003	1.4000e-004	2.8800e-003	0.2452	21.3949	21.6400	0.0178	2.0000e-004	22.1410

3rd and Fairfax Project - Construction Trailer Electricity Consump. - South Coast AQMD Air District, 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	4.0800e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	7.7905	7.7905	1.8000e-004	5.0000e-005	7.8086
Mobile	2.5900e-003	0.0145	0.0347	1.3000e-004	0.0103	1.0000e-004	0.0104	2.7500e-003	1.0000e-004	2.8400e-003	0.0000	11.6414	11.6414	5.8000e-004	0.0000	11.6558
Waste						0.0000	0.0000		0.0000	0.0000	0.1888	0.0000	0.1888	0.0112	0.0000	0.4677
Water						0.0000	0.0000		0.0000	0.0000	0.0564	1.9630	2.0194	5.8400e-003	1.5000e-004	2.2090
Total	6.7300e-003	0.0150	0.0352	1.3000e-004	0.0103	1.4000e-004	0.0104	2.7500e-003	1.4000e-004	2.8800e-003	0.2452	21.3949	21.6400	0.0178	2.0000e-004	22.1410

	ROG	NOx	CO	SO2	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	IGNORE Building Construction	Building Construction	1/1/2021	1/7/2021	5	5	
2	IGNORE Architectural Coating	Architectural Coating	1/8/2021	1/14/2021	5	5	

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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: 1,500; Non-Residential Outdoor: 500; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
IGNORE Architectural Coating	Air Compressors	1	6.00	78	0.48
IGNORE Building Construction	Cranes	1	4.00	231	0.29
IGNORE Building Construction	Forklifts	2	6.00	89	0.20
IGNORE Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
IGNORE Building Construction	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
IGNORE Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3rd and Fairfax Project - Construction Trailer Electricity Consump. - South Coast AQMD Air District, Annual

3.3 IGNORE Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.6300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	3.8200e-003	4.5400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
Total	5.1800e-003	3.8200e-003	4.5400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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

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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	2.5900e-003	0.0145	0.0347	1.3000e-004	0.0103	1.0000e-004	0.0104	2.7500e-003	1.0000e-004	2.8400e-003	0.0000	11.6414	11.6414	5.8000e-004	0.0000	11.6558
Unmitigated	2.5900e-003	0.0145	0.0347	1.3000e-004	0.0103	1.0000e-004	0.0104	2.7500e-003	1.0000e-004	2.8400e-003	0.0000	11.6414	11.6414	5.8000e-004	0.0000	11.6558

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	11.03	2.46	1.05	26,996	26,996
Total	11.03	2.46	1.05	26,996	26,996

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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

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5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7.2349	7.2349	1.7000e-004	4.0000e-005	7.2497
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7.2349	7.2349	1.7000e-004	4.0000e-005	7.2497
NaturalGas Mitigated	6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5555	0.5555	1.0000e-005	1.0000e-005	0.5588
NaturalGas Unmitigated	6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5555	0.5555	1.0000e-005	1.0000e-005	0.5588

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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					
General Office Building	10410	6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5555	0.5555	1.0000e-005	1.0000e-005	0.5588
Total		6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5555	0.5555	1.0000e-005	1.0000e-005	0.5588

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					
General Office Building	10410	6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5555	0.5555	1.0000e-005	1.0000e-005	0.5588
Total		6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5555	0.5555	1.0000e-005	1.0000e-005	0.5588

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	12990	7.2349	1.7000e-004	4.0000e-005	7.2497
Total		7.2349	1.7000e-004	4.0000e-005	7.2497

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	12990	7.2349	1.7000e-004	4.0000e-005	7.2497
Total		7.2349	1.7000e-004	4.0000e-005	7.2497

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	4.0800e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	4.0800e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

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	4.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	4.0700e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

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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	4.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	4.0700e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.0194	5.8400e-003	1.5000e-004	2.2090
Unmitigated	2.0194	5.8400e-003	1.5000e-004	2.2090

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.177734 / 0.108934	2.0194	5.8400e-003	1.5000e-004	2.2090
Total		2.0194	5.8400e-003	1.5000e-004	2.2090

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.177734 / 0.108934	2.0194	5.8400e-003	1.5000e-004	2.2090
Total		2.0194	5.8400e-003	1.5000e-004	2.2090

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1888	0.0112	0.0000	0.4677
Unmitigated	0.1888	0.0112	0.0000	0.4677

3rd and Fairfax Project - Construction Trailer Electricity Consump. - South Coast AQMD Air District, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.93	0.1888	0.0112	0.0000	0.4677
Total		0.1888	0.0112	0.0000	0.4677

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.93	0.1888	0.0112	0.0000	0.4677
Total		0.1888	0.0112	0.0000	0.4677

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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3rd and Fairfax Project - Construction Trailer Electricity Consump. - South Coast AQMD Air District, 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
