

APPENDIX A

AIR QUALITY AND GREENHOUSE GAS MODELING AND ENERGY DATA

6821 Fairlynn Residential - Orange County, Summer

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

**6821 Fairlynn Residential
Orange County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	33.00	Space	0.60	26,136.00	0
City Park	0.53	Acre	0.53	23,000.00	0
Condo/Townhouse	44.00	Dwelling Unit	1.72	74,800.00	126

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Acreage based on site plan
- Construction Phase - Schedule estimated based on construction duration info provided by the client
- Demolition -
- Grading - Per Construction Questionnaire
- Vehicle Trips - Per trip gen table
- Woodstoves - SCAQMD prohibition on wood burning
- Construction Off-road Equipment Mitigation - SCAQMD rule compliance
- Area Mitigation -
- Water Mitigation -
- Waste Mitigation - per AB 939

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	12
tblConstructionPhase	NumDays	3.00	10.00
tblConstructionPhase	NumDays	6.00	60.00
tblConstructionPhase	NumDays	220.00	260.00
tblConstructionPhase	NumDays	10.00	45.00
tblFireplaces	NumberWood	2.20	0.00
tblGrading	AcresOfGrading	60.00	6.00
tblGrading	AcresOfGrading	15.00	4.50
tblGrading	MaterialExported	0.00	7,000.00
tblGrading	MaterialImported	0.00	500.00
tblLandUse	LandUseSquareFeet	13,200.00	26,136.00
tblLandUse	LandUseSquareFeet	23,086.80	23,000.00
tblLandUse	LandUseSquareFeet	44,000.00	74,800.00
tblLandUse	LotAcreage	0.30	0.60
tblLandUse	LotAcreage	2.75	1.72
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	7.20
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	7.20
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	7.20

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.7478	15.6836	15.7718	0.0321	6.5267	0.6353	7.1120	3.4281	0.5935	3.9671	0.0000	3,075.9182	3,075.9182	0.7692	0.1602	3,142.3987
2025	12.3909	13.7118	17.6676	0.0357	0.7761	0.5272	1.3033	0.2077	0.5066	0.7144	0.0000	3,389.1209	3,389.1209	0.5616	0.0471	3,414.7025
Maximum	12.3909	15.6836	17.6676	0.0357	6.5267	0.6353	7.1120	3.4281	0.5935	3.9671	0.0000	3,389.1209	3,389.1209	0.7692	0.1602	3,414.7025

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Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
2024	1.7478	15.6836	15.7718	0.0321	2.9920	0.6353	3.5773	1.5208	0.5935	2.0597	0.0000	3.0759181	3.0759181	0.7692	0.1602	3,142.3987
2025	12.3909	13.7118	17.6676	0.0357	0.7364	0.5272	1.2636	0.1980	0.5066	0.7046	0.0000	3.389.1209	3.389.1209	0.5616	0.0471	3,414.7025
Maximum	12.3909	15.6836	17.6676	0.0357	2.9920	0.6353	3.5773	1.5208	0.5935	2.0597	0.0000	3.389.1209	3.389.1209	0.7692	0.1602	3,414.7025

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
0.00	0.00	0.00	0.00	48.95	0.00	42.48	52.73	0.00	40.95	0.00	0.00	0.00	0.00	0.00	0.00
Percent Reduction															

2.2 Overall Operational

Unmitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Area	2.8910	0.8381	14.6785	0.0393	1.8296	1.8296	1.8296	1.8296	1.8296	259.6721	798.5436	1,058.2157	1.2354	0.0145	1,083.4270	
Energy	0.0215	0.1834	0.0780	1.1700e-003	0.0148	0.0148	0.0148	0.0148	0.0148	234.0820	234.0820	234.0820	4.4900e-003	0.03	4.2910e-003	235.4730
Mobile	0.8336	0.8292	8.4017	0.0202	2.2811	2.2946	2.2946	0.0125	0.6206	2.1067575	2,106.7575	2,106.7575	0.1185	0.0800	2,133.5704	
Total	3.8460	1.8506	23.1583	0.0607	2.2811	1.8579	4.1390	0.6080	1.8570	2.4650	259.6721	3,139.3831	3,399.0552	1.3584	0.0988	3,462.4704

6821 Fairlynn Residential - Orange County, Summer

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Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Area	1.8035	0.6622	3.8940	4.1500e-003	0.0703	0.0703	0.0703	0.0703	0.0703	0.0703	0.0000	798.5436	798.5436	0.0215	0.0145	803.4071
Energy	0.0215	0.1834	0.0780	1.1700e-003	0.0148	0.0148	0.0148	0.0148	0.0148	0.0148		234.0820	234.0820	4.4900e-003	0.003	235.4730
Mobile	0.8336	0.8292	8.4017	0.0202	2.2811	0.0135	2.2946	0.6090	0.0125	0.6206		2,106.7575	2,106.7575	0.1185	0.0800	2,133.5704
Total	2.6585	1.6747	12.3738	0.0255	2.2811	0.0986	2.3797	0.6080	0.0977	0.7057	0.0000	3,139.3831	3,139.3831	0.1445	0.0988	3,172.4505

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
30.88	9.51	46.57	57.99	0.00	94.69	42.51	0.00	94.74	71.37	100.00	0.00	7.64	89.36	0.00	8.38

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2024	1/26/2024	5	20	
2	Site Preparation	Site Preparation	1/27/2024	2/9/2024	5	10	
3	Grading	Grading	2/10/2024	5/3/2024	5	60	
4	Building Construction	Building Construction	5/4/2024	5/2/2025	5	260	
5	Architectural Coating	Architectural Coating	4/1/2025	6/2/2025	5	45	
6	Paving	Paving	5/3/2025	5/16/2025	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0.6

Residential Indoor: 151,470; Residential Outdoor: 50,490; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,568

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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	23	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	88.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	938.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	52.00	13.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

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3.2 Demolition - 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					
Fugitive Dust					0.9474	0.0000	0.9474	0.1435	0.0000	0.1435			0.0000			0.0000
Off-Road	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895		2,324.9459	2,324.9459	0.5884		2,339.6562
Total	1.4397	13.8867	13.4879	0.0241	0.9474	0.6311	1.5785	0.1435	0.5895	0.7329		2,324.9459	2,324.9459	0.5884		2,339.6562

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.0700e-003	0.5206	0.1837	2.4300e-003	0.0767	3.5200e-003	0.0803	0.0210	3.3700e-003	0.0244		277.5459	277.5459	0.0288	0.0446	291.5407
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0344	0.0211	0.3710	1.1900e-003	0.1453	7.1000e-004	0.1460	0.0385	6.5000e-004	0.0392		122.4715	122.4715	2.4700e-003	2.5000e-003	123.2794
Total	0.0435	0.5416	0.5547	3.6200e-003	0.2220	4.2300e-003	0.2263	0.0596	4.0200e-003	0.0636		400.0174	400.0174	0.0312	0.0471	414.8201

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4050	0.0000	0.4050	0.0613	0.0000	0.0613			0.0000			0.0000
Off-Road	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895	0.0000	2,324.9459	2,324.9459	0.5884		2,339.6562
Total	1.4397	13.8867	13.4879	0.0241	0.4050	0.6311	1.0361	0.0613	0.5895	0.6508	0.0000	2,324.9459	2,324.9459	0.5884		2,339.6562

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.0700e-003	0.5206	0.1837	2.4300e-003	0.0732	3.5200e-003	0.0768	0.0202	3.3700e-003	0.0235		277.5459	277.5459	0.0288	0.0446	291.5407
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0344	0.0211	0.3710	1.1900e-003	0.1377	7.1000e-004	0.1384	0.0367	6.5000e-004	0.0373		122.4715	122.4715	2.4700e-003	2.5000e-003	123.2794
Total	0.0435	0.5416	0.5547	3.6200e-003	0.2110	4.2300e-003	0.2152	0.0568	4.0200e-003	0.0609		400.0174	400.0174	0.0312	0.0471	414.8201

3.3 Site Preparation - 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					
Fugitive Dust					0.4772	0.0000	0.4772	0.0515	0.0000	0.0515			0.0000			0.0000
Off-Road	1.2406	13.1186	9.5796	0.0245		0.4971	0.4971		0.4573	0.4573		2,373.6514	2,373.6514	0.7677		2,392.8435
Total	1.2406	13.1186	9.5796	0.0245	0.4772	0.4971	0.9743	0.0515	0.4573	0.5089		2,373.6514	2,373.6514	0.7677		2,392.8435

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0212	0.0130	0.2283	7.3000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.0000e-004	0.0241		75.3671	75.3671	1.5200e-003	1.5400e-003	75.8643
Total	0.0212	0.0130	0.2283	7.3000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.0000e-004	0.0241		75.3671	75.3671	1.5200e-003	1.5400e-003	75.8643

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2040	0.0000	0.2040	0.0220	0.0000	0.0220			0.0000			0.0000
Off-Road	1.2406	13.1186	9.5796	0.0245		0.4971	0.4971		0.4573	0.4573	0.0000	2,373.6514	2,373.6514	0.7677		2,392.8435
Total	1.2406	13.1186	9.5796	0.0245	0.2040	0.4971	0.7011	0.0220	0.4573	0.4794	0.0000	2,373.6514	2,373.6514	0.7677		2,392.8435

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0212	0.0130	0.2283	7.3000e-004	0.0848	4.4000e-004	0.0852	0.0226	4.0000e-004	0.0230		75.3671	75.3671	1.5200e-003	1.5400e-003	75.8643
Total	0.0212	0.0130	0.2283	7.3000e-004	0.0848	4.4000e-004	0.0852	0.0226	4.0000e-004	0.0230		75.3671	75.3671	1.5200e-003	1.5400e-003	75.8643

3.4 Grading - 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					
Fugitive Dust					6.1423	0.0000	6.1423	3.3238	0.0000	3.3238			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265		1,995.5803	1,995.5803	0.6454		2,011.7155
Total	1.3015	13.8178	8.6998	0.0206	6.1423	0.5722	6.7145	3.3238	0.5265	3.8503		1,995.5803	1,995.5803	0.6454		2,011.7155

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0322	1.8496	0.6527	8.6300e-003	0.2726	0.0125	0.2851	0.0747	0.0120	0.0866		986.1291	986.1291	0.1022	0.1583	1,035.8528
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0162	0.2854	9.1000e-004	0.1118	5.4000e-004	0.1123	0.0296	5.0000e-004	0.0301		94.2088	94.2088	1.9000e-003	1.9300e-003	94.8303
Total	0.0587	1.8658	0.9381	9.5400e-003	0.3844	0.0131	0.3975	0.1043	0.0125	0.1168		1,080.3379	1,080.3379	0.1041	0.1602	1,130.6831

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6258	0.0000	2.6258	1.4209	0.0000	1.4209			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265	0.0000	1,995.5803	1,995.5803	0.6454		2,011.7155
Total	1.3015	13.8178	8.6998	0.0206	2.6258	0.5722	3.1981	1.4209	0.5265	1.9474	0.0000	1,995.5803	1,995.5803	0.6454		2,011.7155

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0322	1.8496	0.6527	8.6300e-003	0.2602	0.0125	0.2727	0.0716	0.0120	0.0836		986.1291	986.1291	0.1022	0.1583	1,035.8528
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0265	0.0162	0.2854	9.1000e-004	0.1060	5.4000e-004	0.1065	0.0282	5.0000e-004	0.0287		94.2088	94.2088	1.9000e-003	1.9300e-003	94.8303
Total	0.0587	1.8658	0.9381	9.5400e-003	0.3662	0.0131	0.3792	0.0998	0.0125	0.1123		1,080.3379	1,080.3379	0.1041	0.1602	1,130.6831

6821 Fairlynn Residential - Orange County, Summer

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

3.5 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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.6541	2,289.6541	0.4265		2,300.3154
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.6541	2,289.6541	0.4265		2,300.3154

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0129	0.4543	0.1875	2.3000e-003	0.0831	2.4500e-003	0.0856	0.0239	2.3400e-003	0.0263		252.7023	252.7023	0.0154	0.0364	263.9390
Worker	0.1377	0.0842	1.4841	4.7500e-003	0.5812	2.8300e-003	0.5841	0.1542	2.6000e-003	0.1568		489.8858	489.8858	9.8800e-003	0.0100	493.1176
Total	0.1507	0.5385	1.6716	7.0500e-003	0.6644	5.2800e-003	0.6696	0.1781	4.9400e-003	0.1830		742.5881	742.5881	0.0253	0.0464	757.0566

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.6541	2,289.6541	0.4265		2,300.3154
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.6541	2,289.6541	0.4265		2,300.3154

6821 Fairlynn Residential - Orange County, Summer

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0129	0.4543	0.1875	2.3000e-003	0.0796	2.4500e-003	0.0820	0.0231	2.3400e-003	0.0254		252.7023	252.7023	0.0154	0.0364	263.9390
Worker	0.1377	0.0842	1.4841	4.7500e-003	0.5509	2.8300e-003	0.5538	0.1467	2.6000e-003	0.1493		489.8858	489.8858	9.8800e-003	0.0100	493.1176
Total	0.1507	0.5385	1.6716	7.0500e-003	0.6305	5.2800e-003	0.6358	0.1698	4.9400e-003	0.1747		742.5881	742.5881	0.0253	0.0464	757.0566

3.5 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	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0127	0.4520	0.1867	2.2500e-003	0.0831	2.4600e-003	0.0856	0.0239	2.3500e-003	0.0263		247.9714	247.9714	0.0156	0.0359	259.0550
Worker	0.1301	0.0763	1.3961	4.5900e-003	0.5812	2.7100e-003	0.5840	0.1542	2.4900e-003	0.1566		477.9065	477.9065	8.9700e-003	9.4200e-003	480.9388
Total	0.1428	0.5284	1.5828	6.8400e-003	0.6644	5.1700e-003	0.6695	0.1781	4.8400e-003	0.1829		725.8779	725.8779	0.0246	0.0453	739.9938

6821 Fairlynn Residential - Orange County, Summer

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0127	0.4520	0.1867	2.2500e-003	0.0796	2.4600e-003	0.0820	0.0231	2.3500e-003	0.0254		247.9714	247.9714	0.0156	0.0359	259.0550
Worker	0.1301	0.0763	1.3961	4.5900e-003	0.5509	2.7100e-003	0.5536	0.1467	2.4900e-003	0.1492		477.9065	477.9065	8.9700e-003	9.4200e-003	480.9388
Total	0.1428	0.5284	1.5828	6.8400e-003	0.6305	5.1700e-003	0.6357	0.1698	4.8400e-003	0.1746		725.8779	725.8779	0.0246	0.0453	739.9938

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	10.5624					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	10.7333	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

6821 Fairlynn Residential - Orange County, Summer

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0250	0.0147	0.2685	8.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		91.9051	91.9051	1.7300e-003	1.8100e-003	92.4882
Total	0.0250	0.0147	0.2685	8.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		91.9051	91.9051	1.7300e-003	1.8100e-003	92.4882

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	10.5624					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	10.7333	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0250	0.0147	0.2685	8.8000e-004	0.1060	5.2000e-004	0.1065	0.0282	4.8000e-004	0.0287		91.9051	91.9051	1.7300e-003	1.8100e-003	92.4882
Total	0.0250	0.0147	0.2685	8.8000e-004	0.1060	5.2000e-004	0.1065	0.0282	4.8000e-004	0.0287		91.9051	91.9051	1.7300e-003	1.8100e-003	92.4882

6821 Fairlynn Residential - Orange County, Summer

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

3.7 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	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234		1,710.0067	1,710.0067	0.5420		1,723.5556
Paving	0.1572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9426	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234		1,710.0067	1,710.0067	0.5420		1,723.5556

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0375	0.0220	0.4027	1.3200e-003	0.1677	7.8000e-004	0.1685	0.0445	7.2000e-004	0.0452		137.8576	137.8576	2.5900e-003	2.7200e-003	138.7324
Total	0.0375	0.0220	0.4027	1.3200e-003	0.1677	7.8000e-004	0.1685	0.0445	7.2000e-004	0.0452		137.8576	137.8576	2.5900e-003	2.7200e-003	138.7324

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234	0.0000	1,710.0067	1,710.0067	0.5420		1,723.5556
Paving	0.1572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9426	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234	0.0000	1,710.0067	1,710.0067	0.5420		1,723.5556

6821 Fairlynn Residential - Orange County, Summer

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0375	0.0220	0.4027	1.3200e-003	0.1589	7.8000e-004	0.1597	0.0423	7.2000e-004	0.0430		137.8576	137.8576	2.5900e-003	2.7200e-003	138.7324
Total	0.0375	0.0220	0.4027	1.3200e-003	0.1589	7.8000e-004	0.1597	0.0423	7.2000e-004	0.0430		137.8576	137.8576	2.5900e-003	2.7200e-003	138.7324

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8336	0.8292	8.4017	0.0202	2.2811	0.0135	2.2946	0.6080	0.0125	0.6206		2,106.7576	2,106.7576	0.1185	0.0800	2,133.5704
Unmitigated	0.8336	0.8292	8.4017	0.0202	2.2811	0.0135	2.2946	0.6080	0.0125	0.6206		2,106.7576	2,106.7576	0.1185	0.0800	2,133.5704

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
City Park	0.00	0.00	0.00		
Condo/Townhouse	316.80	316.80	316.80	1,082,554	1,082,554
Parking Lot	0.00	0.00	0.00		
Total	316.80	316.80	316.80	1,082,554	1,082,554

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

6821 Fairlynn Residential - Orange County, Summer

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Condo/Townhouse	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Parking Lot	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801

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	0.0215	0.1834	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.0820	234.0820	4.4900e-003	4.2900e-003	235.4730
NaturalGas Unmitigated	0.0215	0.1834	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.0820	234.0820	4.4900e-003	4.2900e-003	235.4730

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					
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
Condo/Townhouse	1989.7	0.0215	0.1834	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.0820	234.0820	4.4900e-003	4.2900e-003	235.4730
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0215	0.1834	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.0820	234.0820	4.4900e-003	4.2900e-003	235.4730

6821 Fairlynn Residential - Orange County, Summer

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

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Condo/Townhouse	1.9897	0.0215	0.1834	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.0820	234.0820	4.4900e-003	4.2900e-003	235.4730
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0215	0.1834	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.0820	234.0820	4.4900e-003	4.2900e-003	235.4730

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8035	0.6622	3.8940	4.1500e-003		0.0703	0.0703		0.0703	0.0703	0.0000	798.5436	798.5436	0.0215	0.0145	803.4071
Unmitigated	2.9910	0.8381	14.6785	0.0393		1.8296	1.8296		1.8296	1.8296	259.6721	798.5436	1,058.2157	1.2354	0.0145	1,093.4270

6821 Fairlynn Residential - Orange County, Summer

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

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.1302				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4915				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	1.2601	0.7963	110.485	0.0392	1.8095	1.8095	1.8095	1.8095	1.8095	1.8095	259.6721	792.0000	1,051.6721	1.2291	0.0145	1,066.7264
Landscaping	0.1092	0.0418	3.6300	1.9000e-004	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	6.5436	6.5436	6.5436	6.2800e-003		6.7006
Total	2.9910	0.8381	14.6785	0.0393	1.8296	1.8296	1.8296	1.8296	1.8296	1.8296	259.6721	798.5436	1,058.2157	1.2354	0.0145	1,083.4270

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Architectural Coating	0.1302				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4915				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	0.0726	0.6204	0.2640	3.9600e-003	0.0502	0.0502	0.0502	0.0502	0.0502	0.0502	0.0000	792.0000	792.0000	0.0152	0.0145	796.7065
Landscaping	0.1092	0.0418	3.6300	1.9000e-004	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	6.5436	6.5436	6.5436	6.2800e-003		6.7006
Total	1.8035	0.6622	3.8940	4.1500e-003	0.0703	0.0703	0.0703	0.0703	0.0703	0.0703	0.0000	798.5436	798.5436	0.0215	0.0145	803.4071

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

6821 Fairlynn Residential - Orange County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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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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

6821 Fairlynn Residential - Orange County, Winter

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

**6821 Fairlynn Residential
Orange County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	33.00	Space	0.60	26,136.00	0
City Park	0.53	Acre	0.53	23,000.00	0
Condo/Townhouse	44.00	Dwelling Unit	1.72	74,800.00	126

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Acreage based on site plan
- Construction Phase - Schedule estimated based on construction duration info provided by the client
- Demolition -
- Grading - Per Construction Questionnaire
- Vehicle Trips - Per trip gen table
- Woodstoves - SCAQMD prohibition on wood burning
- Construction Off-road Equipment Mitigation - SCAQMD rule compliance
- Area Mitigation -
- Water Mitigation -
- Waste Mitigation - per AB 939

6821 Fairlynn Residential - Orange County, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	12
tblConstructionPhase	NumDays	3.00	10.00
tblConstructionPhase	NumDays	6.00	60.00
tblConstructionPhase	NumDays	220.00	260.00
tblConstructionPhase	NumDays	10.00	45.00
tblFireplaces	NumberWood	2.20	0.00
tblGrading	AcresOfGrading	60.00	6.00
tblGrading	AcresOfGrading	15.00	4.50
tblGrading	MaterialExported	0.00	7,000.00
tblGrading	MaterialImported	0.00	500.00
tblLandUse	LandUseSquareFeet	13,200.00	26,136.00
tblLandUse	LandUseSquareFeet	23,086.80	23,000.00
tblLandUse	LandUseSquareFeet	44,000.00	74,800.00
tblLandUse	LotAcreage	0.30	0.60
tblLandUse	LotAcreage	2.75	1.72
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	7.20
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	7.20
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	7.20

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.7606	15.7641	15.6776	0.0319	6.5267	0.6353	7.1120	3.4281	0.5935	3.9671	0.0000	3,072.3287	3,072.3287	0.7693	0.1605	3,138.8882
2025	12.4059	13.7410	17.5622	0.0355	0.7761	0.5272	1.3033	0.2077	0.5067	0.7144	0.0000	3,362.3571	3,362.3571	0.5617	0.0479	3,388.1810
Maximum	12.4059	15.7641	17.5622	0.0355	6.5267	0.6353	7.1120	3.4281	0.5935	3.9671	0.0000	3,362.3571	3,362.3571	0.7693	0.1605	3,388.1810

6821 Fairlynn Residential - Orange County, Winter

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

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					
2024	1.7606	15.7641	15.6776	0.0319	2.9920	0.6353	3.5773	1.5208	0.5935	2.0597	0.0000	3,072.3287	3,072.3287	0.7693	0.1605	3,138.8882
2025	12.4059	13.7410	17.5622	0.0355	0.7364	0.5272	1.2636	0.1980	0.5067	0.7046	0.0000	3,362.3571	3,362.3571	0.5617	0.0479	3,388.1810
Maximum	12.4059	15.7641	17.5622	0.0355	2.9920	0.6353	3.5773	1.5208	0.5935	2.0597	0.0000	3,362.3571	3,362.3571	0.7693	0.1605	3,388.1810

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	48.95	0.00	42.47	52.73	0.00	40.95	0.00	0.00	0.00	0.00	0.00	0.00

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	2.9910	0.8381	14.6785	0.0393		1.8296	1.8296		1.8296	1.8296	259.6721	798.5436	1,058.2157	1.2354	0.0145	1,093.4270
Energy	0.0215	0.1834	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.0820	234.0820	4.4800e-003	4.2800e-003	235.4730
Mobile	0.8277	0.8902	8.3113	0.0194	2.2811	0.0135	2.2946	0.6080	0.0125	0.6206		2,026.5827	2,026.5827	0.1222	0.0833	2,054.4573
Total	3.8402	1.9117	23.0678	0.0599	2.2811	1.8579	4.1390	0.6080	1.8570	2.4650	259.6721	3,059.2083	3,318.8804	1.3620	0.1021	3,383.3574

6821 Fairlynn Residential - Orange County, Winter

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

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.8035	0.6622	3.8940	4.1500e-003		0.0703	0.0703		0.0703	0.0703	0.0000	798.5436	798.5436	0.0215	0.0145	803.4071
Energy	0.0215	0.1834	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.0820	234.0820	4.4900e-003	4.2900e-003	235.4730
Mobile	0.8277	0.8902	8.3113	0.0194	2.2811	0.0135	2.2946	0.6080	0.0125	0.6206		2,026.5827	2,026.5827	0.1222	0.0833	2,054.4573
Total	2.6527	1.7358	12.2833	0.0247	2.2811	0.0986	2.3797	0.6080	0.0977	0.7057	0.0000	3,059.2083	3,059.2083	0.1481	0.1021	3,093.3374

	ROG	NOx	CO	SO2	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	30.92	9.20	46.75	58.74	0.00	94.69	42.51	0.00	94.74	71.37	100.00	0.00	7.82	89.13	0.00	8.57

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2024	1/26/2024	5	20	
2	Site Preparation	Site Preparation	1/27/2024	2/9/2024	5	10	
3	Grading	Grading	2/10/2024	5/3/2024	5	60	
4	Building Construction	Building Construction	5/4/2024	5/2/2025	5	260	
5	Architectural Coating	Architectural Coating	4/1/2025	6/2/2025	5	45	
6	Paving	Paving	5/3/2025	5/16/2025	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0.6

Residential Indoor: 151,470; Residential Outdoor: 50,490; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,568

6821 Fairlynn Residential - Orange County, Winter

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	88.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	938.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	52.00	13.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

6821 Fairhym Residential - Orange County, Winter

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

3.2 Demolition - 2024

Unmitigated Construction On-Site

Category	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Fugitive Dust					0.9474	0.0000	0.9474	0.1435	0.0000	0.1435			0.0000			0.0000
Off-Road	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895		2,324,9459	2,324,9459	0.5884		2,339,6562
Total	1.4397	13.8867	13.4879	0.0241	0.9474	0.6311	1.5785	0.1435	0.5895	0.7329		2,324,9459	2,324,9459	0.5884		2,339,6562

Unmitigated Construction Off-Site

Category	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	8.5300e-003	0.5428	0.1857	2.4300e-003	0.0767	3.5300e-003	0.0803	0.0210	3.3900e-003	0.0244		277,8014	277,8014	0.0287	0.0446	291,8078
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0378	0.0231	0.3460	1.1300e-003	0.1453	7.1000e-004	0.1460	0.0395	6.5000e-004	0.0392		116,6250	116,6250	2.5300e-003	2.6600e-003	117,4820
Total	0.0463	0.5659	0.5317	3.5600e-003	0.2220	4.2400e-003	0.2283	0.0596	4.0300e-003	0.0638		394,4284	394,4284	0.0313	0.0473	409,2898

Mitigated Construction On-Site

Category	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Fugitive Dust					0.4050	0.0000	0.4050	0.0613	0.0000	0.0613			0.0000			0.0000
Off-Road	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895		2,324,9459	2,324,9459	0.5884		2,339,6562
Total	1.4397	13.8867	13.4879	0.0241	0.4050	0.6311	1.0361	0.0613	0.5895	0.6508	0.0000	2,324,9459	2,324,9459	0.5884		2,339,6562

6821 Fairhymn Residential - Orange County, Winter

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

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	8.5300e-003	0.5428	0.1857	2.4300e-003	0.0732	3.5300e-003	0.0768	0.0202	3.3800e-003	0.0235		277.8014	277.8014	0.0287	0.0446	291.8078
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0378	0.0231	0.3460	1.1300e-003	0.1377	7.1000e-004	0.1384	0.0367	6.5000e-004	0.0373		116.6250	116.6250	2.5300e-003	2.6600e-003	117.4820
Total	0.0463	0.5659	0.5317	3.5600e-003	0.2110	4.2400e-003	0.2152	0.0568	4.0300e-003	0.0609		394.4264	394.4264	0.0313	0.0473	409.2898

3.3 Site Preparation - 2024

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Fugitive Dust					0.4772	0.0000	0.4772	0.0515	0.0000	0.0515			0.0000			0.0000
Off-Road	1.2406	13.1186	9.5796	0.0245		0.4971	0.4971		0.4573	0.4573		2.373.6514	2.373.6514	0.7677		2.392.8435
Total	1.2406	13.1186	9.5796	0.0245	0.4772	0.4971	0.9743	0.0515	0.4573	0.5089		2.373.6514	2.373.6514	0.7677		2.392.8435

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0232	0.0142	0.2129	7.0000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.0000e-004	0.0241		71.7692	71.7692	1.5600e-003	1.6400e-003	72.2966
Total	0.0232	0.0142	0.2129	7.0000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.0000e-004	0.0241		71.7692	71.7692	1.5600e-003	1.6400e-003	72.2966

6821 Fairhymn Residential - Orange County, Winter

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

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Fugitive Dust					0.2040	0.0000	0.2040	0.0220	0.0000	0.0220			0.0000			0.0000
Off-Road	1.2406	13.1189	9.5796	0.0245		0.4971	0.4971		0.4573	0.4573	0.0000	2,373.6514	2,373.6514	0.7677		2,392.8435
Total	1.2406	13.1189	9.5796	0.0245	0.2040	0.4971	0.7011	0.0220	0.4573	0.4794	0.0000	2,373.6514	2,373.6514	0.7677		2,392.8435

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	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	0.0232	0.0142	0.2129	7.0000e-004	0.0848	4.4000e-004	0.0852	0.0226	4.0000e-004	0.0230			71.7692	1.5800e-003	1.6400e-003	72.2966
Total	0.0232	0.0142	0.2129	7.0000e-004	0.0848	4.4000e-004	0.0852	0.0226	4.0000e-004	0.0230			71.7692	1.5800e-003	1.6400e-003	72.2966

3.4 Grading - 2024

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Fugitive Dust					6.1423	0.0000	6.1423	3.3238	0.0000	3.3238			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265	0.0000	1,995.5803	1,995.5803	0.6454		2,011.7155
Total	1.3015	13.8178	8.6998	0.0206	6.1423	0.5722	6.7145	3.3238	0.5265	3.8503	0.0000	1,995.5803	1,995.5803	0.6454		2,011.7155

6821 Fairlynn Residential - Orange County, Winter

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

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0303	1.9285	0.6596	8.6400e-003	0.2726	0.0125	0.2852	0.0747	0.0120	0.0867		987.0369	987.0369	0.1020	0.1584	1.0368019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0291	0.0178	0.2862	8.7000e-004	0.1118	5.4000e-004	0.1123	0.0296	5.0000e-004	0.0301		89.7115	89.7115	1.9500e-003	2.0500e-003	90.3708
Total	0.0594	1.9463	0.9258	9.5100e-003	0.3844	0.0131	0.3975	0.1043	0.0125	0.1168		1,076.7484	1,076.7484	0.1040	0.1605	1,127.1727

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Fugitive Dust					2.6258	0.0000	2.6258	1.4209	0.0000	1.4209			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206	0.5722	0.5722	0.5722	0.5265	0.5265	0.5265		0.0000	1,995.5603	0.6454		2,011.7155
Total	1.3015	13.8178	8.6998	0.0206	2.6258	0.5722	3.1981	1.4209	0.5265	1.9474	0.0000	1,995.5603	1,995.5603	0.6454		2,011.7155

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Hauling	0.0303	1.9285	0.6596	8.6400e-003	0.2602	0.0125	0.2728	0.0716	0.0120	0.0836		987.0369	987.0369	0.1020	0.1584	1.0368019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0291	0.0178	0.2862	8.7000e-004	0.1060	5.4000e-004	0.1065	0.0282	5.0000e-004	0.0287		89.7115	89.7115	1.9500e-003	2.0500e-003	90.3708
Total	0.0594	1.9463	0.9258	9.5100e-003	0.3662	0.0131	0.3793	0.0998	0.0125	0.1123		1,076.7484	1,076.7484	0.1040	0.1605	1,127.1727

6821 Fairlynn Residential - Orange County, Winter

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

3.5 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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.6541	2,289.6541	0.4265		2,300.3154
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.6541	2,289.6541	0.4265		2,300.3154

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0125	0.4746	0.1934	2.3000e-003	0.0831	2.4600e-003	0.0856	0.0239	2.3500e-003	0.0263		253.0831	253.0831	0.0154	0.0365	264.3432
Worker	0.1510	0.0925	1.3841	4.5200e-003	0.5812	2.8300e-003	0.5841	0.1542	2.6000e-003	0.1568		466.5000	466.5000	0.0101	0.0107	469.9281
Total	0.1635	0.5670	1.5775	6.8200e-003	0.6644	5.2900e-003	0.6697	0.1781	4.9500e-003	0.1830		719.5832	719.5832	0.0255	0.0472	734.2713

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.6541	2,289.6541	0.4265		2,300.3154
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.6541	2,289.6541	0.4265		2,300.3154

6821 Fairlynn Residential - Orange County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0125	0.4746	0.1934	2.3000e-003	0.0796	2.4600e-003	0.0820	0.0231	2.3500e-003	0.0254		253.0831	253.0831	0.0154	0.0365	264.3432
Worker	0.1510	0.0925	1.3841	4.5200e-003	0.5509	2.8300e-003	0.5538	0.1467	2.6000e-003	0.1493		466.5000	466.5000	0.0101	0.0107	469.9281
Total	0.1635	0.5670	1.5775	6.8200e-003	0.6305	5.2900e-003	0.6358	0.1698	4.9500e-003	0.1747		719.5832	719.5832	0.0255	0.0472	734.2713

3.5 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	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0123	0.4723	0.1925	2.2500e-003	0.0831	2.4700e-003	0.0856	0.0239	2.3700e-003	0.0263		248.3532	248.3532	0.0156	0.0360	259.4597
Worker	0.1431	0.0838	1.3028	4.3700e-003	0.5812	2.7100e-003	0.5840	0.1542	2.4900e-003	0.1566		455.1392	455.1392	9.2200e-003	0.0100	458.3555
Total	0.1554	0.5561	1.4953	6.6200e-003	0.6644	5.1800e-003	0.6695	0.1781	4.8600e-003	0.1829		703.4924	703.4924	0.0248	0.0460	717.8152

6821 Fairlynn Residential - Orange County, Winter

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0123	0.4723	0.1925	2.2500e-003	0.0796	2.4700e-003	0.0820	0.0231	2.3700e-003	0.0254		248.3532	248.3532	0.0156	0.0360	259.4597
Worker	0.1431	0.0838	1.3028	4.3700e-003	0.5509	2.7100e-003	0.5536	0.1467	2.4900e-003	0.1492		455.1392	455.1392	9.2200e-003	0.0100	458.3555
Total	0.1554	0.5561	1.4953	6.6200e-003	0.6305	5.1800e-003	0.6357	0.1698	4.8600e-003	0.1746		703.4924	703.4924	0.0248	0.0460	717.8152

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	10.5624					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	10.7333	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

6821 Fairlynn Residential - Orange County, Winter

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

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0275	0.0161	0.2505	8.4000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301	87.5288	87.5288	1.7700e-003	1.7700e-003	1.9300e-003	88.1453
Total	0.0275	0.0161	0.2505	8.4000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301	87.5288	87.5288	1.7700e-003	1.7700e-003	1.9300e-003	88.1453

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Archit. Coating	10.5624				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003	0.0615	0.0615	0.0615	0.0515	0.0515	0.0515	0.0000	281.4481	281.4481	0.0154	0.0154	281.8319
Total	10.7333	1.1455	1.8091	2.9700e-003	0.0615	0.0615	0.0615	0.0515	0.0515	0.0515	0.0000	281.4481	281.4481	0.0154	0.0154	281.8319

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0275	0.0161	0.2505	8.4000e-004	0.1060	5.2000e-004	0.1065	0.0282	4.8000e-004	0.0287	87.5288	87.5288	1.7700e-003	1.7700e-003	1.9300e-003	88.1453
Total	0.0275	0.0161	0.2505	8.4000e-004	0.1060	5.2000e-004	0.1065	0.0282	4.8000e-004	0.0287	87.5288	87.5288	1.7700e-003	1.7700e-003	1.9300e-003	88.1453

6821 Fairhym Residential - Orange County, Winter

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

3.7 Paving - 2025

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234		1.710.0067	1.710.0067	0.5420		1.723.5556
Paving	0.1572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9426	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234		1.710.0067	1.710.0067	0.5420		1.723.5556

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0413	0.0242	0.3758	1.2800e-003	0.1677	7.8000e-004	0.1685	0.0445	7.2000e-004	0.0452		131.2902	131.2902	2.6800e-003	2.8900e-003	132.2179
Total	0.0413	0.0242	0.3758	1.2800e-003	0.1677	7.8000e-004	0.1685	0.0445	7.2000e-004	0.0452		131.2902	131.2902	2.6800e-003	2.8900e-003	132.2179

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	lb/day															
Off-Road	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234		1.710.0067	1.710.0067	0.5420		1.723.5556
Paving	0.1572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9426	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234		1.710.0067	1.710.0067	0.5420		1.723.5556

6821 Fairlynn Residential - Orange County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0413	0.0242	0.3758	1.2600e-003	0.1589	7.8000e-004	0.1597	0.0423	7.2000e-004	0.0430		131.2902	131.2902	2.6600e-003	2.8900e-003	132.2179
Total	0.0413	0.0242	0.3758	1.2600e-003	0.1589	7.8000e-004	0.1597	0.0423	7.2000e-004	0.0430		131.2902	131.2902	2.6600e-003	2.8900e-003	132.2179

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8277	0.8902	8.3113	0.0194	2.2811	0.0135	2.2946	0.6080	0.0125	0.6206		2,026.5827	2,026.5827	0.1222	0.0833	2,054.4573
Unmitigated	0.8277	0.8902	8.3113	0.0194	2.2811	0.0135	2.2946	0.6080	0.0125	0.6206		2,026.5827	2,026.5827	0.1222	0.0833	2,054.4573

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
City Park	0.00	0.00	0.00		
Condo/Townhouse	316.80	316.80	316.80	1,082,554	1,082,554
Parking Lot	0.00	0.00	0.00		
Total	316.80	316.80	316.80	1,082,554	1,082,554

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

6821 Fairlynn Residential - Orange County, Winter

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Condo/Townhouse	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Parking Lot	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801

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	0.0215	0.1834	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.0820	234.0820	4.4900e-003	4.2900e-003	235.4730
NaturalGas Unmitigated	0.0215	0.1834	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.0820	234.0820	4.4900e-003	4.2900e-003	235.4730

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					
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
Condo/Townhouse	1989.7	0.0215	0.1834	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.0820	234.0820	4.4900e-003	4.2900e-003	235.4730
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0215	0.1834	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		234.0820	234.0820	4.4900e-003	4.2900e-003	235.4730

6821 Fairlynn Residential - Orange County, Winter

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

Mitigated

Land Use	lb/day																		
	NaturalGas Use kB1U/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
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	0.0000	0.0000	0.0000	
Condo/Townhouse	1.9897	0.0215	0.1834	0.0780	1.1700e-003	0.0148	0.0148	0.0148	0.0148	0.0148	0.0148	234.0820	234.0820	234.0820	4.48000e-003	4.29000e-003	4.29000e-003	235.4730	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0215	0.1834	0.0780	1.1700e-003	0.0148	0.0148	0.0148	0.0148	0.0148	0.0148	234.0820	234.0820	234.0820	4.48000e-003	4.29000e-003	4.29000e-003	235.4730	

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	1.8035	0.6622	3.8940	4.1500e-003	0.0703	0.0703	0.0703	0.0703	0.0703	0.0703	0.0000	798.5436	798.5436	0.0215	0.0145	803.4071
Unmitigated	2.9910	0.8381	14.6785	0.0393	1.8296	1.8296	1.8296	1.8296	1.8296	1.8296	259.6721	798.5436	1,058.2157	1.2354	0.0145	1,093.4270

6.2 Area by SubCategory

Unmitigated

SubCategory	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Architectural Coating	0.1302				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4915				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Hearth	1.2601	0.7963	11.0485	0.0392	1.8095	1.8095	1.8095	1.8095	1.8095	1.8095	259.6721	792.0000	1,051.6721	1.2291	0.0145	1,086.7264
Landscaping	0.1092	0.0418	3.6300	1.9000e-004	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201		6.5436	6.5436	6.2800e-003		6.7006
Total	2.9910	0.8381	14.6785	0.0393	1.8296	1.8296	1.8296	1.8296	1.8296	1.8296	259.6721	798.5436	1,058.2157	1.2354	0.0145	1,093.4270

6821 Fairlynn Residential - Orange County, Winter

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

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1302					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4915					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0726	0.6204	0.2640	3.9600e-003		0.0502	0.0502		0.0502	0.0502	0.0000	792.0000	792.0000	0.0152	0.0145	796.7065
Landscaping	0.1092	0.0418	3.6300	1.9000e-004		0.0201	0.0201		0.0201	0.0201		6.5436	6.5436	6.2800e-003		6.7006
Total	1.8035	0.6622	3.8940	4.1500e-003		0.0703	0.0703		0.0703	0.0703	0.0000	798.5436	798.5436	0.0215	0.0145	803.4071

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- 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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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

6821 Fairlynn Residential - Orange County, Annual

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

**6821 Fairlynn Residential
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	33.00	Space	0.60	26,136.00	0
City Park	0.53	Acre	0.53	23,000.00	0
Condo/Townhouse	44.00	Dwelling Unit	1.72	74,800.00	126

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Acreage based on site plan
- Construction Phase - Schedule estimated based on construction duration info provided by the client
- Demolition -
- Grading - Per Construction Questionnaire
- Vehicle Trips - Per trip gen table
- Woodstoves - SCAQMD prohibition on wood burning
- Construction Off-road Equipment Mitigation - SCAQMD rule compliance
- Area Mitigation -
- Water Mitigation -
- Waste Mitigation - per AB 939

6821 Fairlynn Residential - Orange County, Annual

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	12
tblConstructionPhase	NumDays	3.00	10.00
tblConstructionPhase	NumDays	6.00	60.00
tblConstructionPhase	NumDays	220.00	260.00
tblConstructionPhase	NumDays	10.00	45.00
tblFireplaces	NumberWood	2.20	0.00
tblGrading	AcresOfGrading	60.00	6.00
tblGrading	AcresOfGrading	15.00	4.50
tblGrading	MaterialExported	0.00	7,000.00
tblGrading	MaterialImported	0.00	500.00
tblLandUse	LandUseSquareFeet	13,200.00	26,136.00
tblLandUse	LandUseSquareFeet	23,086.80	23,000.00
tblLandUse	LandUseSquareFeet	44,000.00	74,800.00
tblLandUse	LotAcreage	0.30	0.60
tblLandUse	LotAcreage	2.75	1.72
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	8.14	7.20
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	6.28	7.20
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	7.32	7.20

6821 Fairlynn Residential - Orange County, Annual

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

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.2123	1.8356	1.8287	4.0500e-003	0.2662	0.0731	0.3394	0.1203	0.0691	0.1894	0.0000	354.6625	354.6625	0.0648	8.4900e-003	358.8119
2025	0.3188	0.6171	0.7900	1.5800e-003	0.0320	0.0238	0.0559	8.5800e-003	0.0228	0.0314	0.0000	135.6361	135.6361	0.0206	1.8900e-003	136.7145
Maximum	0.3188	1.8356	1.8287	4.0500e-003	0.2662	0.0731	0.3394	0.1203	0.0691	0.1894	0.0000	354.6625	354.6625	0.0648	8.4900e-003	358.8119

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					
2024	0.2123	1.8356	1.8287	4.0500e-003	0.1504	0.0731	0.2236	0.0613	0.0691	0.1305	0.0000	354.6622	354.6622	0.0648	8.4900e-003	358.8115
2025	0.3188	0.6171	0.7900	1.5800e-003	0.0304	0.0238	0.0542	8.1800e-003	0.0228	0.0310	0.0000	135.6360	135.6360	0.0206	1.8900e-003	136.7144
Maximum	0.3188	1.8356	1.8287	4.0500e-003	0.1504	0.0731	0.2236	0.0613	0.0691	0.1305	0.0000	354.6622	354.6622	0.0648	8.4900e-003	358.8115

6821 Fairlynn Residential - Orange County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.37	0.00	29.71	46.04	0.00	26.87	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	1-1-2024	3-31-2024	0.5319	0.5319
2	4-1-2024	6-30-2024	0.5139	0.5139
3	7-1-2024	9-30-2024	0.4965	0.4965
4	10-1-2024	12-31-2024	0.4978	0.4978
5	1-1-2025	3-31-2025	0.4572	0.4572
6	4-1-2025	6-30-2025	0.4725	0.4725
		Highest	0.5319	0.5319

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3254	0.0152	0.5919	5.1000e-004		0.0251	0.0251		0.0251	0.0251	2.9446	9.7232	12.6678	0.0147	1.6000e-004	13.0831
Energy	3.9200e-003	0.0335	0.0142	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	78.0848	78.0848	4.0600e-003	1.1100e-003	78.5180
Mobile	0.1474	0.1643	1.5224	3.5600e-003	0.4078	2.4500e-003	0.4103	0.1089	2.2800e-003	0.1111	0.0000	337.7773	337.7773	0.0201	0.0138	342.3996
Waste						0.0000	0.0000		0.0000	0.0000	4.1187	0.0000	4.1187	0.2434	0.0000	10.2039
Water						0.0000	0.0000		0.0000	0.0000	0.9095	11.4252	12.3347	0.0944	2.3200e-003	15.3863
Total	0.4767	0.2130	2.1285	4.2800e-003	0.4078	0.0303	0.4381	0.1089	0.0301	0.1390	7.9728	437.0105	444.9833	0.3766	0.0174	459.5908

6821 Fairlynn Residential - Orange County, Annual

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

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3105	0.0130	0.4571	7.0000e-005		3.1400e-003	3.1400e-003		3.1400e-003	3.1400e-003	0.0000	9.7232	9.7232	8.8000e-004	1.6000e-004	9.7943
Energy	3.9200e-003	0.0335	0.0142	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	78.0848	78.0848	4.0600e-003	1.1100e-003	78.5180
Mobile	0.1474	0.1643	1.5224	3.5600e-003	0.4078	2.4500e-003	0.4103	0.1089	2.2800e-003	0.1111	0.0000	337.7773	337.7773	0.0201	0.0138	342.3996
Waste						0.0000	0.0000		0.0000	0.0000	2.0593	0.0000	2.0593	0.1217	0.0000	5.1019
Water						0.0000	0.0000		0.0000	0.0000	0.7276	9.8081	10.5357	0.0756	1.8600e-003	12.9804
Total	0.4619	0.2108	1.9937	3.8400e-003	0.4078	8.3000e-003	0.4161	0.1089	8.1300e-003	0.1170	2.7869	435.3934	438.1803	0.2223	0.0170	448.7942

	ROG	NOx	CO	SO2	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	3.11	1.03	6.33	10.28	0.00	72.61	5.02	0.00	73.02	15.83	65.04	0.37	1.53	40.98	2.64	2.35

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2024	1/26/2024	5	20	
2	Site Preparation	Site Preparation	1/27/2024	2/9/2024	5	10	
3	Grading	Grading	2/10/2024	5/3/2024	5	60	
4	Building Construction	Building Construction	5/4/2024	5/2/2025	5	260	
5	Architectural Coating	Architectural Coating	4/1/2025	6/2/2025	5	45	
6	Paving	Paving	5/3/2025	5/16/2025	5	10	

6821 Fairlynn Residential - Orange County, Annual

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

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0.6

Residential Indoor: 151,470; Residential Outdoor: 50,490; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,568

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	91	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.38
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

6821 Fairlynn Residential - Orange County, Annual

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	88.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	938.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	52.00	13.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 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	tons/yr										MT/yr					
Fugitive Dust					9.4700e-003	0.0000	9.4700e-003	1.4300e-003	0.0000	1.4300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0144	0.1389	0.1349	2.4000e-004		6.3100e-003	6.3100e-003		5.8900e-003	5.8900e-003	0.0000	21.0916	21.0916	5.3400e-003	0.0000	21.2250
Total	0.0144	0.1389	0.1349	2.4000e-004	9.4700e-003	6.3100e-003	0.0158	1.4300e-003	5.8900e-003	7.3200e-003	0.0000	21.0916	21.0916	5.3400e-003	0.0000	21.2250

6821 Fairlynn Residential - Orange County, Annual

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

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	TotalCO2	CH4	N2O	CO2e
tons/yr																
Hauling	9.0000e-005	5.4800e-003	1.8400e-003	2.0000e-005	7.6000e-004	4.0000e-005	7.9000e-004	2.1000e-004	3.0000e-005	2.4000e-004	0.0000	2.5188	2.5188	2.6000e-004	4.0000e-004	2.6458
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.4000e-004	3.5400e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4300e-003	3.9000e-004	1.0000e-005	3.9000e-004	0.0000	1.0723	1.0723	2.0000e-005	2.0000e-005	1.0802
Total	4.4000e-004	5.7200e-003	5.3800e-003	3.0000e-005	2.1900e-003	5.0000e-005	2.2200e-003	5.9000e-004	4.0000e-005	6.3000e-004	0.0000	3.5911	3.5911	2.8000e-004	4.2000e-004	3.7260
MT/yr																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	TotalCO2	CH4	N2O	CO2e
tons/yr																
Fugitive Dust					4.0500e-003	0.0000	4.0500e-003	6.1000e-004	0.0000	6.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0144	0.1389	0.1349	2.4000e-004	6.3100e-003	6.3100e-003	6.3100e-003	5.9900e-003	0.0000	5.9900e-003	0.0000	21.0915	21.0915	5.3400e-003	0.0000	21.2250
Total	0.0144	0.1389	0.1349	2.4000e-004	4.0500e-003	6.3100e-003	0.0104	6.1000e-004	5.9900e-003	6.5000e-003	0.0000	21.0915	21.0915	5.3400e-003	0.0000	21.2250
MT/yr																

6821 Fairlynn Residential - Orange County, Annual

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

Mitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	TotalCO2	CH4	N2O	CO2e
Hauling	9.0000e-005	5.4800e-003	1.8400e-003	2.0000e-005	7.2000e-004	4.0000e-005	7.6000e-004	2.0000e-004	3.0000e-005	2.3000e-004	0.0000	2.5188	2.5188	2.6000e-004	4.0000e-004	2.6458
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.4000e-004	3.5400e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0723	1.0723	2.0000e-005	2.0000e-005	1.0802
Total	4.4000e-004	5.7200e-003	5.3800e-003	3.0000e-005	2.0700e-003	5.0000e-005	2.1200e-003	5.6000e-004	4.0000e-005	6.0000e-004	0.0000	3.5911	3.5911	2.8000e-004	4.2000e-004	3.7260

3.3 Site Preparation - 2024
Unmitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	TotalCO2	CH4	N2O	CO2e
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2000e-003	0.0656	0.0479	1.2000e-004	2.4900e-003	2.4900e-003	2.4900e-003	2.2900e-003	0.0000	2.2900e-003	0.0000	10.7667	10.7667	3.4800e-003	0.0000	10.8538
Total	6.2000e-003	0.0656	0.0479	1.2000e-004	2.3900e-003	2.4900e-003	4.8800e-003	2.6000e-004	0.0000	2.5500e-003	0.0000	10.7667	10.7667	3.4800e-003	0.0000	10.8538

6821 Fairhryn Residential - Orange County, Annual

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

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	7.0000e-005	1.0900e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3299	0.3299	1.0000e-005	1.0000e-005	0.3324
Total	1.1000e-004	7.0000e-005	1.0900e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3299	0.3299	1.0000e-005	1.0000e-005	0.3324
MT/yr																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
Fugitive Dust					1.0200e-003	0.0000	1.0200e-003	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2000e-003	0.0656	0.0479	1.2000e-004		2.4800e-003	2.4800e-003		2.2900e-003	2.2900e-003	0.0000	10.7667	10.7667	3.4800e-003	0.0000	10.8537
Total	6.2000e-003	0.0656	0.0479	1.2000e-004	1.0200e-003	2.4800e-003	3.5000e-003	1.1000e-004	2.2900e-003	2.4000e-003	0.0000	10.7667	10.7667	3.4800e-003	0.0000	10.8537
MT/yr																

6821 Fairlynn Residential - Orange County, Annual

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

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	TotalCO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	7.0000e-005	1.0900e-003	0.0000	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3299	1.0000e-005	1.0000e-005	1.0000e-005	0.3324
Total	1.1000e-004	7.0000e-005	1.0900e-003	0.0000	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3299	1.0000e-005	1.0000e-005	1.0000e-005	0.3324

3.4 Grading - 2024

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	TotalCO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Fugitive Dust					0.1843	0.0000	0.1843	0.0997	0.0000	0.0997	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0391	0.4145	0.2610	6.2000e-004	0.0172	0.0172	0.0172	0.0158	0.0158	0.0158	0.0000	54.3108	54.3108	0.0176	0.0000	54.7499
Total	0.0391	0.4145	0.2610	6.2000e-004	0.1843	0.0172	0.2014	0.0997	0.0158	0.1155	0.0000	54.3108	54.3108	0.0176	0.0000	54.7499

6821 Fairlynn Residential - Orange County, Annual

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

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	TotalCO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Hauling	9.4000e-004	0.0584	0.0197	2.6000e-004	8.0500e-003	3.8000e-004	8.4300e-003	2.2100e-003	3.8000e-004	2.5700e-003	0.0000	26.8484	26.8484	2.7800e-003	4.3100e-003	28.2022
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	5.4000e-004	8.1600e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.4746	2.4746	5.0000e-005	6.0000e-005	2.4927
Total	1.7400e-003	0.0589	0.0278	2.9000e-004	0.0113	4.0000e-004	0.0117	3.0800e-003	3.8000e-004	3.4600e-003	0.0000	29.3230	29.3230	2.8300e-003	4.3700e-003	30.6949

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	TotalCO2	CH4	N2O	CO2e
	tons/yr															
	MT/yr															
Fugitive Dust					0.0788	0.0000	0.0788	0.0426	0.0000	0.0426	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0391	0.4145	0.2610	6.2000e-004		0.0172	0.0172	0.0158	0.0158	0.0158	0.0000	54.3107	54.3107	0.0176	0.0000	54.7499
Total	0.0391	0.4145	0.2610	6.2000e-004	0.0788	0.0172	0.0959	0.0426	0.0158	0.0584	0.0000	54.3107	54.3107	0.0176	0.0000	54.7499

6821 Fairlynn Residential - Orange County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.4000e-004	0.0584	0.0197	2.6000e-004	7.6900e-003	3.8000e-004	8.0600e-003	2.1200e-003	3.6000e-004	2.4800e-003	0.0000	26.8484	26.8484	2.7800e-003	4.3100e-003	28.2022
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	5.4000e-004	8.1600e-003	3.0000e-005	3.1200e-003	2.0000e-005	3.1400e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.4746	2.4746	5.0000e-005	6.0000e-005	2.4927
Total	1.7400e-003	0.0589	0.0278	2.9000e-004	0.0108	4.0000e-004	0.0112	2.9500e-003	3.8000e-004	3.3300e-003	0.0000	29.3230	29.3230	2.8300e-003	4.3700e-003	30.6949

3.5 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	tons/yr										MT/yr					
Off-Road	0.1374	1.1028	1.2126	2.1500e-003		0.0463	0.0463		0.0443	0.0443	0.0000	178.6340	178.6340	0.0333	0.0000	179.4658
Total	0.1374	1.1028	1.2126	2.1500e-003		0.0463	0.0463		0.0443	0.0443	0.0000	178.6340	178.6340	0.0333	0.0000	179.4658

6821 Fairlynn Residential - Orange County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0900e-003	0.0409	0.0164	2.0000e-004	7.0400e-003	2.1000e-004	7.2500e-003	2.0300e-003	2.0000e-004	2.2300e-003	0.0000	19.7278	19.7278	1.2000e-003	2.8400e-003	20.6056
Worker	0.0119	8.1100e-003	0.1217	3.9000e-004	0.0491	2.4000e-004	0.0493	0.0130	2.2000e-004	0.0133	0.0000	36.8876	36.8876	7.9000e-004	8.4000e-004	37.1585
Total	0.0130	0.0490	0.1381	5.9000e-004	0.0561	4.5000e-004	0.0566	0.0151	4.2000e-004	0.0155	0.0000	56.6154	56.6154	1.9900e-003	3.6800e-003	57.7641

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1374	1.1028	1.2126	2.1500e-003		0.0463	0.0463		0.0443	0.0443	0.0000	178.6338	178.6338	0.0333	0.0000	179.4655
Total	0.1374	1.1028	1.2126	2.1500e-003		0.0463	0.0463		0.0443	0.0443	0.0000	178.6338	178.6338	0.0333	0.0000	179.4655

6821 Fairlynn Residential - Orange County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0900e-003	0.0409	0.0164	2.0000e-004	6.7400e-003	2.1000e-004	6.9500e-003	1.9600e-003	2.0000e-004	2.1600e-003	0.0000	19.7278	19.7278	1.2000e-003	2.8400e-003	20.6056
Worker	0.0119	8.1100e-003	0.1217	3.9000e-004	0.0465	2.4000e-004	0.0468	0.0124	2.2000e-004	0.0126	0.0000	36.8876	36.8876	7.9000e-004	8.4000e-004	37.1585
Total	0.0130	0.0490	0.1381	5.9000e-004	0.0533	4.5000e-004	0.0537	0.0144	4.2000e-004	0.0148	0.0000	56.6154	56.6154	1.9900e-003	3.6800e-003	57.7641

3.5 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	0.0656	0.5290	0.6163	1.1000e-003		0.0207	0.0207		0.0198	0.0198	0.0000	91.4035	91.4035	0.0168	0.0000	91.8226
Total	0.0656	0.5290	0.6163	1.1000e-003		0.0207	0.0207		0.0198	0.0198	0.0000	91.4035	91.4035	0.0168	0.0000	91.8226

6821 Fairlynn Residential - Orange County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5000e-004	0.0208	8.3300e-003	1.0000e-004	3.6000e-003	1.1000e-004	3.7100e-003	1.0400e-003	1.0000e-004	1.1400e-003	0.0000	9.9045	9.9045	6.2000e-004	1.4300e-003	10.3474
Worker	5.7500e-003	3.7600e-003	0.0586	1.9000e-004	0.0251	1.2000e-004	0.0252	6.6700e-003	1.1000e-004	6.7800e-003	0.0000	18.4126	18.4126	3.7000e-004	4.1000e-004	18.5426
Total	6.3000e-003	0.0246	0.0669	2.9000e-004	0.0287	2.3000e-004	0.0290	7.7100e-003	2.1000e-004	7.9200e-003	0.0000	28.3171	28.3171	9.9000e-004	1.8400e-003	28.8901

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0656	0.5290	0.6163	1.1000e-003		0.0207	0.0207		0.0198	0.0198	0.0000	91.4034	91.4034	0.0168	0.0000	91.8225
Total	0.0656	0.5290	0.6163	1.1000e-003		0.0207	0.0207		0.0198	0.0198	0.0000	91.4034	91.4034	0.0168	0.0000	91.8225

6821 Fairlynn Residential - Orange County, Annual

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

Mitigated Construction Off-Site

Category	tons/yr																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	TotalCO2	CH4	N2O	CO2e	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5000e-004	0.0208	8.3300e-003	1.0000e-004	3.4500e-003	1.1000e-004	3.5600e-003	1.0000e-003	1.0000e-004	1.1100e-003	0.0000	9.9045	9.9045	6.2000e-004	1.4300e-003	10.3474	
Worker	5.7500e-003	3.7600e-003	0.0586	1.9000e-004	0.0238	1.2000e-004	0.0239	6.3500e-003	1.1000e-004	6.4600e-003	0.0000	18.4126	18.4126	3.7000e-004	4.1000e-004	18.5426	
Total	6.3000e-003	0.0246	0.0669	2.9000e-004	0.0273	2.3000e-004	0.0275	7.3500e-003	2.1000e-004	7.5700e-003	0.0000	28.3171	28.3171	9.9000e-004	1.8400e-003	28.8901	

3.6 Architectural Coating - 2025
Unmitigated Construction On-Site

Category	tons/yr																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	TotalCO2	CH4	N2O	CO2e	
Archit. Coating	0.2377				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	3.8400e-003	0.0258	0.0407	7.0000e-005	1.1600e-003	1.1600e-003	1.1600e-003	1.1600e-003	1.1600e-003	1.1600e-003	0.0000	5.7448	5.7448	3.1000e-004	0.0000	5.7527	
Total	0.2415	0.0258	0.0407	7.0000e-005	1.1600e-003	1.1600e-003	1.1600e-003	1.1600e-003	1.1600e-003	1.1600e-003	0.0000	5.7448	5.7448	3.1000e-004	0.0000	5.7527	

6821 Fairlynn Residential - Orange County, Annual

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

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	TotalCO2	CH4	N2O	CO2e
tons/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	5.7000e-004	3.7000e-004	5.7600e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.8107	1.8107	4.0000e-005	4.0000e-005	1.8235
Total	5.7000e-004	3.7000e-004	5.7600e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.8107	1.8107	4.0000e-005	4.0000e-005	1.8235
MT/yr																

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	TotalCO2	CH4	N2O	CO2e
tons/yr																
Archit. Coating	0.2377				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8400e-003	0.0258	0.0407	7.0000e-005	1.1600e-003	1.1600e-003	1.1600e-003	1.1600e-003	1.1600e-003	1.1600e-003	0.0000	5.7448	5.7448	3.1000e-004	0.0000	5.7527
Total	0.2415	0.0258	0.0407	7.0000e-005	1.1600e-003	1.1600e-003	1.1600e-003	1.1600e-003	1.1600e-003	1.1600e-003	0.0000	5.7448	5.7448	3.1000e-004	0.0000	5.7527
MT/yr																

6821 Fairlynn Residential - Orange County, Annual

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

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	TotalCO2	CH4	N2O	CO2e
tons/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	5.7000e-004	3.7000e-004	5.7600e-003	2.0000e-005	2.3400e-003	1.0000e-005	2.3500e-003	6.2000e-004	1.0000e-005	6.4000e-004	0.0000	1.8107	1.8107	4.0000e-005	4.0000e-005	1.8235
Total	5.7000e-004	3.7000e-004	5.7600e-003	2.0000e-005	2.3400e-003	1.0000e-005	2.3500e-003	6.2000e-004	1.0000e-005	6.4000e-004	0.0000	1.8107	1.8107	4.0000e-005	4.0000e-005	1.8235
MT/yr																

3.7 Paving - 2025

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	TotalCO2	CH4	N2O	CO2e
tons/yr																
OffRoad	3.9300e-003	0.0372	0.0584	9.0000e-005	1.7500e-003	1.7500e-003	1.7500e-003	1.6200e-003	0.0000	1.6200e-003	0.0000	7.7565	7.7565	2.4600e-003	0.0000	7.8179
Paving	7.9000e-004				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	4.7200e-003	0.0372	0.0584	9.0000e-005	1.7500e-003	1.7500e-003	1.7500e-003	1.6200e-003	0.0000	1.6200e-003	0.0000	7.7565	7.7565	2.4600e-003	0.0000	7.8179
MT/yr																

6821 Fairlynn Residential - Orange County, Annual

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

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	TotalCO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.9000e-004	1.2000e-004	1.9200e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6036	1.0000e-005	1.0000e-005	1.0000e-005	0.6078
Total	1.9000e-004	1.2000e-004	1.9200e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6036	1.0000e-005	1.0000e-005	1.0000e-005	0.6078

Mitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	TotalCO2	CH4	N2O	CO2e
OffRoad	3.9300e-003	0.0372	0.0584	9.0000e-005	1.7500e-003	1.7500e-003	1.7500e-003	1.6200e-003	0.0000	1.6200e-003	0.0000	7.7565	7.7565	2.4600e-003	0.0000	7.8179
Paving	7.9000e-004				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	4.7200e-003	0.0372	0.0584	9.0000e-005	1.7500e-003	1.7500e-003	1.7500e-003	1.6200e-003	0.0000	1.6200e-003	0.0000	7.7565	7.7565	2.4600e-003	0.0000	7.8179

6821 Fairlynn Residential - Orange County, Annual

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.2000e-004	1.9200e-003	1.0000e-005	7.8000e-004	0.0000	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6036	0.6036	1.0000e-005	1.0000e-005	0.6078
Total	1.9000e-004	1.2000e-004	1.9200e-003	1.0000e-005	7.8000e-004	0.0000	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6036	0.6036	1.0000e-005	1.0000e-005	0.6078

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1474	0.1643	1.5224	3.5600e-003	0.4078	2.4500e-003	0.4103	0.1089	2.2800e-003	0.1111	0.0000	337.7773	337.7773	0.0201	0.0138	342.3996
Unmitigated	0.1474	0.1643	1.5224	3.5600e-003	0.4078	2.4500e-003	0.4103	0.1089	2.2800e-003	0.1111	0.0000	337.7773	337.7773	0.0201	0.0138	342.3996

6821 Fairlynn Residential - Orange County, Annual

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
City Park	0.00	0.00	0.00		
Condo/Townhouse	316.80	316.80	316.80	1,082,554	1,082,554
Parking Lot	0.00	0.00	0.00		
Total	316.80	316.80	316.80	1,082,554	1,082,554

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Condo/Townhouse	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Parking Lot	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

6821 Fairlynn Residential - Orange County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	39.3299	39.3299	3.3200e-003	4.0000e-004	39.5328
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	39.3299	39.3299	3.3200e-003	4.0000e-004	39.5328
NaturalGas Mitigated	3.9200e-003	0.0335	0.0142	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7549	38.7549	7.4000e-004	7.1000e-004	38.9852
NaturalGas Unmitigated	3.9200e-003	0.0335	0.0142	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7549	38.7549	7.4000e-004	7.1000e-004	38.9852

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					
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
Condo/Townhouse	726239	3.9200e-003	0.0335	0.0142	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7549	38.7549	7.4000e-004	7.1000e-004	38.9852
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		3.9200e-003	0.0335	0.0142	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7549	38.7549	7.4000e-004	7.1000e-004	38.9852

6821 Fairlynn Residential - Orange County, Annual

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

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
Condo/Townhouse	726239	3.9200e-003	0.0335	0.0142	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7549	38.7549	7.4000e-004	7.1000e-004	38.9852
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		3.9200e-003	0.0335	0.0142	2.1000e-004		2.7100e-003	2.7100e-003		2.7100e-003	2.7100e-003	0.0000	38.7549	38.7549	7.4000e-004	7.1000e-004	38.9852

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	212622	37.7076	3.1800e-003	3.9000e-004	37.9021
Parking Lot	9147.6	1.6223	1.4000e-004	2.0000e-005	1.6307
Total		39.3299	3.3200e-003	4.1000e-004	39.5328

6821 Fairlynn Residential - Orange County, Annual

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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	212622	37.7076	3.1800e-003	3.9000e-004	37.9021
Parking Lot	9147.6	1.6223	1.4000e-004	2.0000e-005	1.6307
Total		39.3299	3.3200e-003	4.1000e-004	39.5328

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3105	0.0130	0.4571	7.0000e-005		3.1400e-003	3.1400e-003	3.1400e-003	3.1400e-003	3.1400e-003	0.0000	9.7232	9.7232	8.8000e-004	1.6000e-004	9.7943
Unmitigated	0.3254	0.0152	0.5919	5.1000e-004		0.0251	0.0251	0.0251	0.0251	0.0251	2.9446	9.7232	12.6678	0.0147	1.6000e-004	13.0831

6821 Fairlynn Residential - Orange County, Annual

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.0238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2722					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0158	9.9500e-003	0.1381	4.9000e-004		0.0226	0.0226		0.0226	0.0226	2.9446	8.9811	11.9258	0.0139	1.6000e-004	12.3233	
Landscaping	0.0137	5.2300e-003	0.4538	2.0000e-005		2.5200e-003	2.5200e-003		2.5200e-003	2.5200e-003	0.0000	0.7420	0.7420	7.1000e-004	0.0000	0.7598	
Total	0.3254	0.0152	0.5919	5.1000e-004		0.0251	0.0251		0.0251	0.0251	2.9446	9.7232	12.6678	0.0147	1.6000e-004	13.0831	

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	0.0238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2722					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	9.1000e-004	7.7500e-003	3.3000e-003	5.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	8.9811	8.9811	1.7000e-004	1.6000e-004	9.0345	
Landscaping	0.0137	5.2300e-003	0.4538	2.0000e-005		2.5200e-003	2.5200e-003		2.5200e-003	2.5200e-003	0.0000	0.7420	0.7420	7.1000e-004	0.0000	0.7598	
Total	0.3105	0.0130	0.4571	7.0000e-005		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003	0.0000	9.7232	9.7232	8.8000e-004	1.6000e-004	9.7943	

6821 Fairlynn Residential - Orange County, Annual

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

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	10.5357	0.0756	1.8600e-003	12.9804
Unmitigated	12.3347	0.0944	2.3200e-003	15.3863

7.2 Water by Land Use

Unmitigated

Indoor/Out door Use	Total CO2	CH4	N2O	CO2e	
Land Use	Mgal	MT/yr			
City Park	0 / 0.631485	1.2442	1.1000e-004	1.0000e-005	1.2506
Condo/Townhouse	2.86678 / 1.80732	11.0905	0.0943	2.3100e-003	14.1357
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		12.3347	0.0944	2.3200e-003	15.3863

Mitigated

Indoor/Out door Use	Total CO2	CH4	N2O	CO2e	
Land Use	Mgal	MT/yr			
City Park	0 / 0.592965	1.1683	1.0000e-004	1.0000e-005	1.1744
Condo/Townhouse	2.29342 / 1.69707	9.3674	0.0755	1.8500e-003	11.8061
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		10.5357	0.0756	1.8600e-003	12.9804

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

Category/Year

6821 Fairlynn Residential - Orange County, Annual

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.0593	0.1217	0.0000	5.1019
Unmitigated	4.1187	0.2434	0.0000	10.2039

6821 Fairlynn Residential - Orange County, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.05	0.0102	6.0000e-004	0.0000	0.0252
Condo/Townhouse	20.24	4.1085	0.2428	0.0000	10.1787
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.1187	0.2434	0.0000	10.2039

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.025	5.0700e-003	3.0000e-004	0.0000	0.0126
Condo/Townhouse	10.12	2.0543	0.1214	0.0000	5.0894
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		2.0593	0.1217	0.0000	5.1019

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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6821 Fairlynn Residential - Orange County, Annual

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Construction Fuel Consumption

On-Site Diesel ¹	MTCO ₂ e	Gallons of Fuel ⁴	Current County Fuel	Percent
Demolition	21	2,069		
Site Preparation/Grading	66	6,502		
Building Construction	211	20,788		
Paving	8	788		
Architectural Coating	6	591		
Total	312	30,739	165,423,376	0.0186%

Off-Site Diesel ¹	MTCO ₂ e	Gallons of Fuel ⁴	Current County Fuel	Percent
Demolition	3	296		
Site Preparation/Grading	28	2,759		
Building Construction	31	3,054		
Paving	0	0		
Architectural Coating	0	0		
Total	62	6,108	165,423,376	0.0037%

Off-Site Gasoline ²	MTCO ₂ e	Gallons of Fuel ⁴	Current County Fuel	Percent
Demolition	1	114		
Site Preparation/Grading	2	268		
Building Construction	56	6,356		
Paving	1	114		
Architectural Coating	2	227		
Total	62	7,078	1,083,995,365	0.0007%

Total Diesel Fuel		36,847	165,423,376	0.0223%
Total Gasoline Fuel		7,078	1,083,995,365	0.0007%
Total Construction Fuel	436	43,926		

Construction Phase ³	Demolition			Site Preparation			Grading		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)
2024	21	3	1	11	0	0	55	28	2
2025									
Total	21	3	1	11	0	0	55	28	2

Construction Phase ³	Building Construction			Paving			Architectural Coating		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gas (Worker)
2024	179	21	37						
2025	32	10	19	8	0	1	6	0	2
Total	211	31	56	8	0	1	6	0	2

Notes:

¹ Fuel used for off-road, hauling, and vendor trips assumed to be diesel.

² Fuel used for worker trips assumed to be gasoline.

³ MTCO₂e rates from CalEEMod (3.0 Construction Details).

⁴ For CO₂e emissions, see Chapter 13 (page 94); Conversion Ratios: Climate Registry, General Reporting Protocol, 2016.

Total Operational Fuel

Vehicle Type	Annual Fuel (Gallons)	Fuel Type	Orange County Gallons ⁴	Orange County Percent	
Passenger Cars	47,402	Gas	1,083,995,365	0.0044%	0.0047%
Light/Medium Trucks	3,227	Gas	1,083,995,365	0.0003%	
Heavy Trucks/Other	876	Diesel	165,423,376	0.0005%	
Total	51,505		1,249,418,741		

50,629	Annual Gallons of Gas	
876	Annual Gallons of Diesel	
total	gas	diesel
1,264,656,444	3442022.903	3441730.502

Notes:

- ¹ Percent of vehicle trip distribution based on fleet mix from CalEEMod (4.4 Fleet Mix).
- ² Total annual operational VMT based on mitigated annual VMT from CalEEMod (4.2 Trip Summary Information).
- ³ Average fuel economy derived from Department of Transportation.
- ⁴ Total annual county fuel per EMFAC 2017 model of projected operational fuel usage.

Operational Fuel

Vehicle Type	Percent ¹	Annual VMT ²	MPG ³	Annual Fuel (Gallons)	Fuel Type
Passenger Cars	0.94	1,023,889	21.6	47,402	Gas
Light/Medium Trucks	0.05	55,504	17.2	3,227	Gas
Heavy Trucks/Other	0.00	5,343	6.1	876	Diesel
Total	1.00	1,084,737		51,505	

Category	LDA	LDT1	LDT2	MCY	MDV	LHD1	LHD2	MHD	OBUS	UBUS	SBUS	MH	HHD
Condo/Townhouse	0.5475	0.0602	0.1850	0.0247	0.1265	0.0242	0.0067	0.0147	0.0007	0.0004	0.0007	0.0038	0.0049
City Park	0.5475	0.0602	0.1850	0.0247	0.1265	0.0242	0.0067	0.0147	0.0007	0.0004	0.0007	0.0038	0.0049

Notes:

- ¹ Percent of vehicle trip distribution based on fleet mix from CalEEMod (4.4 Fleet Mix).
- ² Total annual operational VMT based on mitigated annual VMT from CalEEMod (4.2 Trip Summary Information).
- ³ Average fuel economy derived from Department of Transportation.
- ⁴ Total annual county fuel per EMFAC 2021 model of projected operational fuel usage.

Electricity/Natural Gas Energy

	Mitigated Project Annual Energy	Los Angeles County Annual Energy ³	Percentage Increase
Electricity (kWh/yr)	221,770	65,649,880,000	0.0003%
Natural Gas (kBTU/yr)	726,239	123,770,374,709	0.0006%
Natural Gas (therms/yr)	7,262	1,237,999,629	0.0006%

Land Use	Electricity ¹ (kWh/yr)		Natural Gas ² (kBTU/yr)	
	Unmitigated	Mitigated	Unmitigated	Mitigated
City Park	0	0	0	0
Condo/Townhouse	212,622	212,622	726,239	726,239
Parking Lot	9,148	9,148	0	0
Total Energy	221,770	221,770	726,239	726,239

Notes:

¹ Electricity use per CalEEMod (5.3 Energy by Land Use).

² Natural Gas use per CalEEMod (5.2 Natural Gas by Land Use).

³ County total energy values from California Energy Commission energy reports available through ecdms.energy.ca.gov.