

Appendix A

Air Quality/Greenhouse Gas/Energy Data

This document is designed for double-sided printing to conserve natural resources.

SoCalGas - Los Angeles-South Coast County, Annual

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

SoCalGas

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	43.67	1000sqft	0.62	43,665.00	0
Parking Lot	489.00	Space	4.40	195,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
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 - The first story is 26,900 sqf =0.62 acre

Parking space: 219 for new office building + 270 additional on-site parking

Construction Phase - per Construction questionnaire

Note, the questionnaire doesn't include the duration of paving and architectural coating, we use 1 month for conservative analysis.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire

Off-road Equipment - per construction questionnaire

Off-road Equipment - per construction questionnaire

Off-road Equipment - per construction questionnaire

Trips and VMT - per construction questionnaire

Demolition - per construction questionnaire

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Grading - per construction questionnaire

Architectural Coating - Rule 1113

Vehicle Trips - 1146 trips/43.556=26.31

Area Coating - rule 1113

Construction Off-road Equipment Mitigation - rule 403

Area Mitigation - rule 1113

Waste Mitigation - ab341

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	230.00	393.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	6/28/2022	6/30/2022
tblConstructionPhase	PhaseEndDate	7/26/2022	8/1/2022
tblConstructionPhase	PhaseEndDate	6/13/2023	2/1/2024
tblConstructionPhase	PhaseEndDate	7/11/2023	3/4/2024
tblConstructionPhase	PhaseEndDate	8/8/2023	4/1/2024
tblConstructionPhase	PhaseStartDate	6/29/2022	7/1/2022
tblConstructionPhase	PhaseStartDate	7/27/2022	8/2/2022
tblConstructionPhase	PhaseStartDate	6/14/2023	2/2/2024
tblConstructionPhase	PhaseStartDate	7/12/2023	3/5/2024

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tblGrading	MaterialImported	0.00	7,000.00
tblLandUse	LotAcreage	1.00	0.62
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	6.00
tblVehicleTrips	ST_TR	2.21	26.31
tblVehicleTrips	SU_TR	0.70	26.31
tblVehicleTrips	WD_TR	9.74	26.31

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1770	1.7492	1.8603	4.5000e-003	0.1638	0.0671	0.2308	0.0325	0.0626	0.0951	0.0000	404.6804	404.6804	0.0854	0.0127	410.6068
2023	0.1890	1.7164	2.7405	5.5100e-003	0.1687	0.0656	0.2343	0.0456	0.0617	0.1073	0.0000	497.0985	497.0985	0.0821	0.0161	503.9494
2024	0.1834	0.4913	0.5845	1.6700e-003	0.0207	0.0180	0.0387	5.5600e-003	0.0168	0.0223	0.0000	148.3012	148.3012	0.0389	1.5500e-003	149.7350
Maximum	0.1890	1.7492	2.7405	5.5100e-003	0.1687	0.0671	0.2343	0.0456	0.0626	0.1073	0.0000	497.0985	497.0985	0.0854	0.0161	503.9494

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					
2022	0.1770	1.7492	1.8603	4.5000e-003	0.1136	0.0671	0.1807	0.0264	0.0626	0.0889	0.0000	404.6801	404.6801	0.0854	0.0127	410.6064
2023	0.1890	1.7164	2.7405	5.5100e-003	0.1687	0.0656	0.2343	0.0456	0.0617	0.1073	0.0000	497.0981	497.0981	0.0821	0.0161	503.9491
2024	0.1834	0.4913	0.5845	1.6700e-003	0.0207	0.0180	0.0387	5.5600e-003	0.0168	0.0223	0.0000	148.3010	148.3010	0.0389	1.5500e-003	149.7348
Maximum	0.1890	1.7492	2.7405	5.5100e-003	0.1687	0.0671	0.2343	0.0456	0.0626	0.1073	0.0000	497.0981	497.0981	0.0854	0.0161	503.9491

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	14.20	0.00	9.95	7.37	0.00	2.74	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	6-1-2022	8-31-2022	1.2319	1.2319
2	9-1-2022	11-30-2022	0.5234	0.5234
3	12-1-2022	2-28-2023	0.4879	0.4879
4	3-1-2023	5-31-2023	0.4796	0.4796
5	6-1-2023	8-31-2023	0.4783	0.4783
6	9-1-2023	11-30-2023	0.4756	0.4756
7	12-1-2023	2-29-2024	0.6653	0.6653
8	3-1-2024	5-31-2024	0.1788	0.1788
		Highest	1.2319	1.2319

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1825	6.0000e-005	6.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0141
Energy	2.4300e-003	0.0221	0.0185	1.3000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	132.9621	132.9621	9.6600e-003	1.5500e-003	133.6669
Mobile	0.5905	0.6695	6.0736	0.0132	1.3904	9.6900e-003	1.4001	0.3710	8.9900e-003	0.3799	0.0000	1,236.7534	1,236.7534	0.0845	0.0533	1,254.7435
Waste						0.0000	0.0000		0.0000	0.0000	8.2414	0.0000	8.2414	0.4871	0.0000	20.4178
Water						0.0000	0.0000		0.0000	0.0000	2.4618	27.2901	29.7519	0.2552	6.2500e-003	37.9933
Total	0.7755	0.6916	6.0989	0.0133	1.3904	0.0114	1.4018	0.3710	0.0107	0.3816	10.7033	1,397.0188	1,407.7221	0.8364	0.0611	1,446.8355

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1825	6.0000e-005	6.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0141
Energy	2.4300e-003	0.0221	0.0185	1.3000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	132.9621	132.9621	9.6600e-003	1.5500e-003	133.6669
Mobile	0.5905	0.6695	6.0736	0.0132	1.3904	9.6900e-003	1.4001	0.3710	8.9900e-003	0.3799	0.0000	1,236.7534	1,236.7534	0.0845	0.0533	1,254.7435
Waste						0.0000	0.0000		0.0000	0.0000	4.1207	0.0000	4.1207	0.2435	0.0000	10.2089
Water						0.0000	0.0000		0.0000	0.0000	2.4618	27.2901	29.7519	0.2552	6.2500e-003	37.9933
Total	0.7755	0.6916	6.0989	0.0133	1.3904	0.0114	1.4018	0.3710	0.0107	0.3816	6.5826	1,397.0188	1,403.6014	0.5929	0.0611	1,436.6266

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.50	0.00	0.29	29.12	0.00	0.71

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	6/1/2022	6/30/2022	5	22	
2	Grading	Grading	7/1/2022	8/1/2022	5	22	
3	Building Construction	Building Construction	8/2/2022	2/1/2024	5	393	

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4	Paving	Paving	2/2/2024	3/4/2024	5	22
5	Architectural Coating	Architectural Coating	3/5/2024	4/1/2024	5	20

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 99

Acres of Paving: 4.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 65,498; Non-Residential Outdoor: 21,833; Striped Parking Area: 11,736 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Grading	Crawler Tractors	2	8.00	212	0.43
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	3	8.00	367	0.48
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	0	0.00	247	0.40
Building Construction	Rough Terrain Forklifts	3	8.00	100	0.40
Paving	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Paving	Off-Highway Trucks	6	8.00	402	0.38
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	0	0.00	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74

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Paving	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	0	0.00	46	0.45
Demolition	Off-Highway Trucks	4	8.00	402	0.38
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	6.00	0.00	247.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	0.00	875.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	96.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0268	0.0000	0.0268	4.0500e-003	0.0000	4.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0346	0.2796	0.2661	8.1000e-004		0.0112	0.0112		0.0104	0.0104	0.0000	71.2793	71.2793	0.0215	0.0000	71.8159
Total	0.0346	0.2796	0.2661	8.1000e-004	0.0268	0.0112	0.0379	4.0500e-003	0.0104	0.0145	0.0000	71.2793	71.2793	0.0215	0.0000	71.8159

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	0.0219	4.8700e-003	8.0000e-005	2.1200e-003	1.5000e-004	2.2800e-003	5.8000e-004	1.5000e-004	7.3000e-004	0.0000	7.6282	7.6282	4.0000e-004	1.2100e-003	7.9990
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.9000e-004	2.4500e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5987	0.5987	2.0000e-005	2.0000e-005	0.6039
Total	8.0000e-004	0.0220	7.3200e-003	9.0000e-005	2.8400e-003	1.5000e-004	3.0100e-003	7.7000e-004	1.5000e-004	9.3000e-004	0.0000	8.2268	8.2268	4.2000e-004	1.2300e-003	8.6029

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3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.9100e-003	0.0000	9.9100e-003	1.5000e-003	0.0000	1.5000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0346	0.2796	0.2661	8.1000e-004		0.0112	0.0112		0.0104	0.0104	0.0000	71.2793	71.2793	0.0215	0.0000	71.8158
Total	0.0346	0.2796	0.2661	8.1000e-004	9.9100e-003	0.0112	0.0211	1.5000e-003	0.0104	0.0119	0.0000	71.2793	71.2793	0.0215	0.0000	71.8158

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	0.0219	4.8700e-003	8.0000e-005	2.1200e-003	1.5000e-004	2.2800e-003	5.8000e-004	1.5000e-004	7.3000e-004	0.0000	7.6282	7.6282	4.0000e-004	1.2100e-003	7.9990
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.9000e-004	2.4500e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5987	0.5987	2.0000e-005	2.0000e-005	0.6039
Total	8.0000e-004	0.0220	7.3200e-003	9.0000e-005	2.8400e-003	1.5000e-004	3.0100e-003	7.7000e-004	1.5000e-004	9.3000e-004	0.0000	8.2268	8.2268	4.2000e-004	1.2300e-003	8.6029

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3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0529	0.0000	0.0529	5.7300e-003	0.0000	5.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0519	0.5765	0.3892	9.6000e-004		0.0225	0.0225		0.0207	0.0207	0.0000	84.1235	84.1235	0.0272	0.0000	84.8037
Total	0.0519	0.5765	0.3892	9.6000e-004	0.0529	0.0225	0.0753	5.7300e-003	0.0207	0.0264	0.0000	84.1235	84.1235	0.0272	0.0000	84.8037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0200e-003	0.0774	0.0173	2.7000e-004	7.5300e-003	5.5000e-004	8.0700e-003	2.0700e-003	5.2000e-004	2.5900e-003	0.0000	27.0229	27.0229	1.4300e-003	4.2900e-003	28.3364
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4000e-004	7.9000e-004	0.0102	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.4944	2.4944	7.0000e-005	7.0000e-005	2.5164
Total	2.9600e-003	0.0782	0.0275	3.0000e-004	0.0105	5.7000e-004	0.0111	2.8700e-003	5.4000e-004	3.4100e-003	0.0000	29.5173	29.5173	1.5000e-003	4.3600e-003	30.8529

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

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0196	0.0000	0.0196	2.1200e-003	0.0000	2.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0519	0.5765	0.3892	9.6000e-004		0.0225	0.0225		0.0207	0.0207	0.0000	84.1234	84.1234	0.0272	0.0000	84.8036
Total	0.0519	0.5765	0.3892	9.6000e-004	0.0196	0.0225	0.0421	2.1200e-003	0.0207	0.0228	0.0000	84.1234	84.1234	0.0272	0.0000	84.8036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0200e-003	0.0774	0.0173	2.7000e-004	7.5300e-003	5.5000e-004	8.0700e-003	2.0700e-003	5.2000e-004	2.5900e-003	0.0000	27.0229	27.0229	1.4300e-003	4.2900e-003	28.3364
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4000e-004	7.9000e-004	0.0102	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.4944	2.4944	7.0000e-005	7.0000e-005	2.5164
Total	2.9600e-003	0.0782	0.0275	3.0000e-004	0.0105	5.7000e-004	0.0111	2.8700e-003	5.4000e-004	3.4100e-003	0.0000	29.5173	29.5173	1.5000e-003	4.3600e-003	30.8529

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3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0647	0.6687	0.9398	1.4100e-003		0.0314	0.0314		0.0295	0.0295	0.0000	123.4875	123.4875	0.0321	0.0000	124.2890
Total	0.0647	0.6687	0.9398	1.4100e-003		0.0314	0.0314		0.0295	0.0295	0.0000	123.4875	123.4875	0.0321	0.0000	124.2890

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1500e-003	0.1093	0.0363	4.2000e-004	0.0134	9.9000e-004	0.0144	3.8700e-003	9.5000e-004	4.8200e-003	0.0000	40.5881	40.5881	1.3500e-003	5.8500e-003	42.3667
Worker	0.0179	0.0149	0.1942	5.1000e-004	0.0573	3.7000e-004	0.0577	0.0152	3.5000e-004	0.0156	0.0000	47.4579	47.4579	1.3500e-003	1.2900e-003	47.8758
Total	0.0221	0.1242	0.2305	9.3000e-004	0.0707	1.3600e-003	0.0721	0.0191	1.3000e-003	0.0204	0.0000	88.0460	88.0460	2.7000e-003	7.1400e-003	90.2425

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3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0647	0.6687	0.9398	1.4100e-003		0.0314	0.0314		0.0295	0.0295	0.0000	123.4873	123.4873	0.0321	0.0000	124.2888
Total	0.0647	0.6687	0.9398	1.4100e-003		0.0314	0.0314		0.0295	0.0295	0.0000	123.4873	123.4873	0.0321	0.0000	124.2888

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1500e-003	0.1093	0.0363	4.2000e-004	0.0134	9.9000e-004	0.0144	3.8700e-003	9.5000e-004	4.8200e-003	0.0000	40.5881	40.5881	1.3500e-003	5.8500e-003	42.3667
Worker	0.0179	0.0149	0.1942	5.1000e-004	0.0573	3.7000e-004	0.0577	0.0152	3.5000e-004	0.0156	0.0000	47.4579	47.4579	1.3500e-003	1.2900e-003	47.8758
Total	0.0221	0.1242	0.2305	9.3000e-004	0.0707	1.3600e-003	0.0721	0.0191	1.3000e-003	0.0204	0.0000	88.0460	88.0460	2.7000e-003	7.1400e-003	90.2425

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3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1437	1.4806	2.2377	3.3700e-003		0.0638	0.0638		0.0600	0.0600	0.0000	294.6942	294.6942	0.0762	0.0000	296.5979
Total	0.1437	1.4806	2.2377	3.3700e-003		0.0638	0.0638		0.0600	0.0600	0.0000	294.6942	294.6942	0.0762	0.0000	296.5979

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.7300e-003	0.2043	0.0765	9.4000e-004	0.0320	9.8000e-004	0.0329	9.2200e-003	9.4000e-004	0.0102	0.0000	92.1839	92.1839	3.0800e-003	0.0133	96.2143
Worker	0.0396	0.0315	0.4264	1.1900e-003	0.1368	8.4000e-004	0.1376	0.0363	7.7000e-004	0.0371	0.0000	110.2204	110.2204	2.9000e-003	2.8300e-003	111.1372
Total	0.0454	0.2358	0.5028	2.1300e-003	0.1687	1.8200e-003	0.1705	0.0455	1.7100e-003	0.0473	0.0000	202.4043	202.4043	5.9800e-003	0.0161	207.3515

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3.4 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1437	1.4806	2.2377	3.3700e-003		0.0638	0.0638		0.0600	0.0600	0.0000	294.6938	294.6938	0.0762	0.0000	296.5975
Total	0.1437	1.4806	2.2377	3.3700e-003		0.0638	0.0638		0.0600	0.0600	0.0000	294.6938	294.6938	0.0762	0.0000	296.5975

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.7300e-003	0.2043	0.0765	9.4000e-004	0.0320	9.8000e-004	0.0329	9.2200e-003	9.4000e-004	0.0102	0.0000	92.1839	92.1839	3.0800e-003	0.0133	96.2143
Worker	0.0396	0.0315	0.4264	1.1900e-003	0.1368	8.4000e-004	0.1376	0.0363	7.7000e-004	0.0371	0.0000	110.2204	110.2204	2.9000e-003	2.8300e-003	111.1372
Total	0.0454	0.2358	0.5028	2.1300e-003	0.1687	1.8200e-003	0.1705	0.0455	1.7100e-003	0.0473	0.0000	202.4043	202.4043	5.9800e-003	0.0161	207.3515

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3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1297	0.2067	3.1000e-004		5.2000e-003	5.2000e-003		4.8900e-003	4.8900e-003	0.0000	27.2065	27.2065	7.0200e-003	0.0000	27.3820
Total	0.0126	0.1297	0.2067	3.1000e-004		5.2000e-003	5.2000e-003		4.8900e-003	4.8900e-003	0.0000	27.2065	27.2065	7.0200e-003	0.0000	27.3820

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.1000e-004	0.0189	6.9100e-003	9.0000e-005	2.9500e-003	9.0000e-005	3.0400e-003	8.5000e-004	9.0000e-005	9.4000e-004	0.0000	8.3816	8.3816	2.9000e-004	1.2100e-003	8.7486
Worker	3.4100e-003	2.5900e-003	0.0367	1.1000e-004	0.0126	7.0000e-005	0.0127	3.3500e-003	7.0000e-005	3.4200e-003	0.0000	9.9652	9.9652	2.4000e-004	2.4000e-004	10.0437
Total	3.9200e-003	0.0215	0.0436	2.0000e-004	0.0156	1.6000e-004	0.0157	4.2000e-003	1.6000e-004	4.3600e-003	0.0000	18.3468	18.3468	5.3000e-004	1.4500e-003	18.7922

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3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1297	0.2067	3.1000e-004		5.2000e-003	5.2000e-003		4.8900e-003	4.8900e-003	0.0000	27.2065	27.2065	7.0200e-003	0.0000	27.3820
Total	0.0126	0.1297	0.2067	3.1000e-004		5.2000e-003	5.2000e-003		4.8900e-003	4.8900e-003	0.0000	27.2065	27.2065	7.0200e-003	0.0000	27.3820

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.1000e-004	0.0189	6.9100e-003	9.0000e-005	2.9500e-003	9.0000e-005	3.0400e-003	8.5000e-004	9.0000e-005	9.4000e-004	0.0000	8.3816	8.3816	2.9000e-004	1.2100e-003	8.7486
Worker	3.4100e-003	2.5900e-003	0.0367	1.1000e-004	0.0126	7.0000e-005	0.0127	3.3500e-003	7.0000e-005	3.4200e-003	0.0000	9.9652	9.9652	2.4000e-004	2.4000e-004	10.0437
Total	3.9200e-003	0.0215	0.0436	2.0000e-004	0.0156	1.6000e-004	0.0157	4.2000e-003	1.6000e-004	4.3600e-003	0.0000	18.3468	18.3468	5.3000e-004	1.4500e-003	18.7922

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3.5 Paving - 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	0.0431	0.3269	0.3014	1.1000e-003		0.0120	0.0120		0.0111	0.0111	0.0000	96.1722	96.1722	0.0311	0.0000	96.9499
Paving	5.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0489	0.3269	0.3014	1.1000e-003		0.0120	0.0120		0.0111	0.0111	0.0000	96.1722	96.1722	0.0311	0.0000	96.9499

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-004	6.2000e-004	8.7500e-003	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.3788	2.3788	6.0000e-005	6.0000e-005	2.3976
Total	8.1000e-004	6.2000e-004	8.7500e-003	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.3788	2.3788	6.0000e-005	6.0000e-005	2.3976

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3.5 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0431	0.3269	0.3014	1.1000e-003		0.0120	0.0120		0.0111	0.0111	0.0000	96.1721	96.1721	0.0311	0.0000	96.9497
Paving	5.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0489	0.3269	0.3014	1.1000e-003		0.0120	0.0120		0.0111	0.0111	0.0000	96.1721	96.1721	0.0311	0.0000	96.9497

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-004	6.2000e-004	8.7500e-003	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.3788	2.3788	6.0000e-005	6.0000e-005	2.3976
Total	8.1000e-004	6.2000e-004	8.7500e-003	3.0000e-005	3.0100e-003	2.0000e-005	3.0300e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.3788	2.3788	6.0000e-005	6.0000e-005	2.3976

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

3.6 Architectural Coating - 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					
Archit. Coating	0.1148					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
Total	0.1166	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.6000e-004	4.3000e-004	6.0500e-003	2.0000e-005	2.0800e-003	1.0000e-005	2.0900e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6436	1.6436	4.0000e-005	4.0000e-005	1.6565
Total	5.6000e-004	4.3000e-004	6.0500e-003	2.0000e-005	2.0800e-003	1.0000e-005	2.0900e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6436	1.6436	4.0000e-005	4.0000e-005	1.6565

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

3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1148					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
Total	0.1166	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.6000e-004	4.3000e-004	6.0500e-003	2.0000e-005	2.0800e-003	1.0000e-005	2.0900e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6436	1.6436	4.0000e-005	4.0000e-005	1.6565
Total	5.6000e-004	4.3000e-004	6.0500e-003	2.0000e-005	2.0800e-003	1.0000e-005	2.0900e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6436	1.6436	4.0000e-005	4.0000e-005	1.6565

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5905	0.6695	6.0736	0.0132	1.3904	9.6900e-003	1.4001	0.3710	8.9900e-003	0.3799	0.0000	1,236.7534	1,236.7534	0.0845	0.0533	1,254.7435
Unmitigated	0.5905	0.6695	6.0736	0.0132	1.3904	9.6900e-003	1.4001	0.3710	8.9900e-003	0.3799	0.0000	1,236.7534	1,236.7534	0.0845	0.0533	1,254.7435

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	1,148.83	1,148.83	1148.83	3,700,899	3,700,899
Parking Lot	0.00	0.00	0.00		
Total	1,148.83	1,148.83	1,148.83	3,700,899	3,700,899

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	108.9385	108.9385	9.1900e-003	1.1100e-003	109.5005
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	108.9385	108.9385	9.1900e-003	1.1100e-003	109.5005
NaturalGas Mitigated	2.4300e-003	0.0221	0.0185	1.3000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	24.0237	24.0237	4.6000e-004	4.4000e-004	24.1664
NaturalGas Unmitigated	2.4300e-003	0.0221	0.0185	1.3000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	24.0237	24.0237	4.6000e-004	4.4000e-004	24.1664

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	450186	2.4300e-003	0.0221	0.0185	1.3000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	24.0237	24.0237	4.6000e-004	4.4000e-004	24.1664
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		2.4300e-003	0.0221	0.0185	1.3000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	24.0237	24.0237	4.6000e-004	4.4000e-004	24.1664

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	450186	2.4300e-003	0.0221	0.0185	1.3000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	24.0237	24.0237	4.6000e-004	4.4000e-004	24.1664
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		2.4300e-003	0.0221	0.0185	1.3000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	24.0237	24.0237	4.6000e-004	4.4000e-004	24.1664

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	545813	96.7974	8.1700e-003	9.9000e-004	97.2968
Parking Lot	68460	12.1411	1.0200e-003	1.2000e-004	12.2037
Total		108.9385	9.1900e-003	1.1100e-003	109.5005

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	545813	96.7974	8.1700e-003	9.9000e-004	97.2968
Parking Lot	68460	12.1411	1.0200e-003	1.2000e-004	12.2037
Total		108.9385	9.1900e-003	1.1100e-003	109.5005

6.0 Area Detail

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1825	6.0000e-005	6.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0141
Unmitigated	0.1825	6.0000e-005	6.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0141

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	0.0115					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1704					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.3000e-004	6.0000e-005	6.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0141
Total	0.1825	6.0000e-005	6.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0141

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0115					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1704					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.3000e-004	6.0000e-005	6.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0141
Total	0.1825	6.0000e-005	6.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0141

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	29.7519	0.2552	6.2500e-003	37.9933
Unmitigated	29.7519	0.2552	6.2500e-003	37.9933

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	7.75986 / 4.75604	29.7519	0.2552	6.2500e-003	37.9933
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		29.7519	0.2552	6.2500e-003	37.9933

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	7.75986 / 4.75604	29.7519	0.2552	6.2500e-003	37.9933
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		29.7519	0.2552	6.2500e-003	37.9933

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.1207	0.2435	0.0000	10.2089
Unmitigated	8.2414	0.4871	0.0000	20.4178

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	40.6	8.2414	0.4871	0.0000	20.4178
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		8.2414	0.4871	0.0000	20.4178

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	20.3	4.1207	0.2435	0.0000	10.2089
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.1207	0.2435	0.0000	10.2089

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

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

11.0 Vegetation

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

SoCalGas - Los Angeles-South Coast County, Summer

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

SoCalGas

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	43.67	1000sqft	0.62	43,665.00	0
Parking Lot	489.00	Space	4.40	195,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
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 - The first story is 26,900 sqf =0.62 acre

Parking space: 219 for new office building + 270 additional on-site parking

Construction Phase - per Construction questionnaire

Note, the questionnaire doesn't include the duration of paving and architectural coating, we use 1 month for conservative analysis.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire

Off-road Equipment - per construction questionnaire

Off-road Equipment - per construction questionnaire

Off-road Equipment - per construction questionnaire

Trips and VMT - per construction questionnaire

Demolition - per construction questionnaire

SoCalGas - Los Angeles-South Coast County, Summer

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

Grading - per construction questionnaire

Architectural Coating - Rule 1113

Vehicle Trips - 1146 trips/43.556=26.31

Area Coating - rule 1113

Construction Off-road Equipment Mitigation - rule 403

Area Mitigation - rule 1113

Waste Mitigation - ab341

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	230.00	393.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	6/28/2022	6/30/2022
tblConstructionPhase	PhaseEndDate	7/26/2022	8/1/2022
tblConstructionPhase	PhaseEndDate	6/13/2023	2/1/2024
tblConstructionPhase	PhaseEndDate	7/11/2023	3/4/2024
tblConstructionPhase	PhaseEndDate	8/8/2023	4/1/2024
tblConstructionPhase	PhaseStartDate	6/29/2022	7/1/2022
tblConstructionPhase	PhaseStartDate	7/27/2022	8/2/2022
tblConstructionPhase	PhaseStartDate	6/14/2023	2/2/2024
tblConstructionPhase	PhaseStartDate	7/12/2023	3/5/2024

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

tblGrading	MaterialImported	0.00	7,000.00
tblLandUse	LotAcreage	1.00	0.62
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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

tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	6.00
tblVehicleTrips	ST_TR	2.21	26.31
tblVehicleTrips	SU_TR	0.70	26.31
tblVehicleTrips	WD_TR	9.74	26.31

2.0 Emissions Summary

SoCalGas - Los Angeles-South Coast County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.9909	59.1516	37.9234	0.1143	5.7838	2.0922	7.8760	0.7857	1.9266	2.7124	0.0000	11,397.68 60	11,397.68 60	2.8773	0.4359	11,599.50 35
2023	1.4574	13.1007	21.2719	0.0427	1.3229	0.5046	1.8274	0.3565	0.4747	0.8313	0.0000	4,252.015 5	4,252.015 5	0.6961	0.1345	4,309.485 0
2024	11.7169	29.7666	28.2401	0.1020	1.3229	1.0952	1.7700	0.3565	1.0076	1.0817	0.0000	9,885.366 8	9,885.366 8	3.1226	0.1313	9,965.031 9
Maximum	11.7169	59.1516	37.9234	0.1143	5.7838	2.0922	7.8760	0.7857	1.9266	2.7124	0.0000	11,397.68 60	11,397.68 60	3.1226	0.4359	11,599.50 35

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					
2022	4.9909	59.1516	37.9234	0.1143	2.7571	2.0922	4.8492	0.4579	1.9266	2.3845	0.0000	11,397.68 60	11,397.68 60	2.8773	0.4359	11,599.50 35
2023	1.4574	13.1007	21.2719	0.0427	1.3229	0.5046	1.8274	0.3565	0.4747	0.8313	0.0000	4,252.015 4	4,252.015 4	0.6961	0.1345	4,309.485 0
2024	11.7169	29.7666	28.2401	0.1020	1.3229	1.0952	1.7700	0.3565	1.0076	1.0817	0.0000	9,885.366 8	9,885.366 8	3.1226	0.1313	9,965.031 9
Maximum	11.7169	59.1516	37.9234	0.1143	2.7571	2.0922	4.8492	0.4579	1.9266	2.3845	0.0000	11,397.68 60	11,397.68 60	3.1226	0.4359	11,599.50 35

SoCalGas - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	35.91	0.00	26.38	21.87	0.00	7.09	0.00	0.00	0.00	0.00	0.00	0.00

SoCalGas - Los Angeles-South Coast County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0018	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242
Energy	0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666
Mobile	3.3615	3.3598	33.7798	0.0746	7.7917	0.0533	7.8450	2.0755	0.0495	2.1249		7,739.9944	7,739.9944	0.5000	0.3072	7,844.0482
Total	4.3766	3.4812	33.9356	0.0754	7.7917	0.0627	7.8544	2.0755	0.0588	2.1343		7,885.2153	7,885.2153	0.5030	0.3099	7,990.1390

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	1.0018	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242
Energy	0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666
Mobile	3.3615	3.3598	33.7798	0.0746	7.7917	0.0533	7.8450	2.0755	0.0495	2.1249		7,739.9944	7,739.9944	0.5000	0.3072	7,844.0482
Total	4.3766	3.4812	33.9356	0.0754	7.7917	0.0627	7.8544	2.0755	0.0588	2.1343		7,885.2153	7,885.2153	0.5030	0.3099	7,990.1390

SoCalGas - Los Angeles-South Coast County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/30/2022	5	22	
2	Grading	Grading	7/1/2022	8/1/2022	5	22	
3	Building Construction	Building Construction	8/2/2022	2/1/2024	5	393	
4	Paving	Paving	2/2/2024	3/4/2024	5	22	
5	Architectural Coating	Architectural Coating	3/5/2024	4/1/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 99

Acres of Paving: 4.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 65,498; Non-Residential Outdoor: 21,833; Striped Parking Area: 11,736 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Grading	Crawler Tractors	2	8.00	212	0.43
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Loaders	1	8.00	203	0.36

SoCalGas - Los Angeles-South Coast County, Summer

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

Grading	Scrapers	3	8.00	367	0.48
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	0	0.00	247	0.40
Building Construction	Rough Terrain Forklifts	3	8.00	100	0.40
Paving	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Paving	Off-Highway Trucks	6	8.00	402	0.38
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	0	0.00	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	0	0.00	46	0.45
Demolition	Off-Highway Trucks	4	8.00	402	0.38
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	6.00	0.00	247.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	0.00	875.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

SoCalGas - Los Angeles-South Coast County, Summer

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

Building Construction	7	96.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4317	0.0000	2.4317	0.3682	0.0000	0.3682			0.0000			0.0000
Off-Road	3.1412	25.4222	24.1896	0.0739		1.0146	1.0146		0.9454	0.9454		7,142.911 1	7,142.911 1	2.1508		7,196.681 4
Total	3.1412	25.4222	24.1896	0.0739	2.4317	1.0146	3.4463	0.3682	0.9454	1.3136		7,142.911 1	7,142.911 1	2.1508		7,196.681 4

SoCalGas - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0523	1.8856	0.4397	6.9800e-003	0.1965	0.0140	0.2105	0.0539	0.0134	0.0673		764.3253	764.3253	0.0406	0.1213	801.4787
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0208	0.0152	0.2365	6.1000e-004	0.0671	4.3000e-004	0.0675	0.0178	4.0000e-004	0.0182		62.4076	62.4076	1.6900e-003	1.5000e-003	62.8973
Total	0.0731	1.9008	0.6761	7.5900e-003	0.2636	0.0144	0.2780	0.0717	0.0138	0.0855		826.7330	826.7330	0.0423	0.1228	864.3760

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.9010	0.0000	0.9010	0.1364	0.0000	0.1364			0.0000			0.0000
Off-Road	3.1412	25.4222	24.1896	0.0739		1.0146	1.0146		0.9454	0.9454	0.0000	7,142.9111	7,142.9111	2.1508		7,196.6814
Total	3.1412	25.4222	24.1896	0.0739	0.9010	1.0146	1.9155	0.1364	0.9454	1.0818	0.0000	7,142.9111	7,142.9111	2.1508		7,196.6814

SoCalGas - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0523	1.8856	0.4397	6.9800e-003	0.1965	0.0140	0.2105	0.0539	0.0134	0.0673		764.3253	764.3253	0.0406	0.1213	801.4787
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0208	0.0152	0.2365	6.1000e-004	0.0671	4.3000e-004	0.0675	0.0178	4.0000e-004	0.0182		62.4076	62.4076	1.6900e-003	1.5000e-003	62.8973
Total	0.0731	1.9008	0.6761	7.5900e-003	0.2636	0.0144	0.2780	0.0717	0.0138	0.0855		826.7330	826.7330	0.0423	0.1228	864.3760

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8082	0.0000	4.8082	0.5207	0.0000	0.5207			0.0000			0.0000
Off-Road	4.7190	52.4086	35.3806	0.0871		2.0408	2.0408		1.8775	1.8775		8,430.0240	8,430.0240	2.7264		8,498.1850
Total	4.7190	52.4086	35.3806	0.0871	4.8082	2.0408	6.8490	0.5207	1.8775	2.3982		8,430.0240	8,430.0240	2.7264		8,498.1850

SoCalGas - Los Angeles-South Coast County, Summer

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

3.3 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1853	6.6798	1.5575	0.0247	0.6962	0.0496	0.7458	0.1909	0.0475	0.2384		2,707.630 2	2,707.630 2	0.1438	0.4296	2,839.246 5
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0632	0.9853	2.5600e-003	0.2794	1.7900e-003	0.2812	0.0741	1.6500e-003	0.0758		260.0318	260.0318	7.0400e-003	6.2600e-003	262.0720
Total	0.2718	6.7430	2.5428	0.0273	0.9756	0.0514	1.0270	0.2650	0.0491	0.3141		2,967.662 0	2,967.662 0	0.1509	0.4359	3,101.318 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7815	0.0000	1.7815	0.1929	0.0000	0.1929			0.0000			0.0000
Off-Road	4.7190	52.4086	35.3806	0.0871		2.0408	2.0408		1.8775	1.8775	0.0000	8,430.024 0	8,430.024 0	2.7264		8,498.185 0
Total	4.7190	52.4086	35.3806	0.0871	1.7815	2.0408	3.8222	0.1929	1.8775	2.0704	0.0000	8,430.024 0	8,430.024 0	2.7264		8,498.185 0

SoCalGas - Los Angeles-South Coast County, Summer

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

3.3 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1853	6.6798	1.5575	0.0247	0.6962	0.0496	0.7458	0.1909	0.0475	0.2384		2,707.630 2	2,707.630 2	0.1438	0.4296	2,839.246 5
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0865	0.0632	0.9853	2.5600e-003	0.2794	1.7900e-003	0.2812	0.0741	1.6500e-003	0.0758		260.0318	260.0318	7.0400e-003	6.2600e-003	262.0720
Total	0.2718	6.7430	2.5428	0.0273	0.9756	0.0514	1.0270	0.2650	0.0491	0.3141		2,967.662 0	2,967.662 0	0.1509	0.4359	3,101.318 4

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1874	12.2690	17.2437	0.0259		0.5754	0.5754		0.5414	0.5414		2,497.644 9	2,497.644 9	0.6484		2,513.855 9
Total	1.1874	12.2690	17.2437	0.0259		0.5754	0.5754		0.5414	0.5414		2,497.644 9	2,497.644 9	0.6484		2,513.855 9

SoCalGas - Los Angeles-South Coast County, Summer

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

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0767	1.9104	0.6550	7.6400e-003	0.2498	0.0182	0.2680	0.0719	0.0174	0.0893		820.8002	820.8002	0.0274	0.1183	856.7330
Worker	0.3323	0.2426	3.7837	9.8200e-003	1.0731	6.8800e-003	1.0799	0.2846	6.3300e-003	0.2909		998.5220	998.5220	0.0270	0.0240	1,006.3563
Total	0.4090	2.1530	4.4387	0.0175	1.3229	0.0251	1.3479	0.3565	0.0237	0.3803		1,819.3222	1,819.3222	0.0545	0.1423	1,863.0893

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1874	12.2690	17.2437	0.0259		0.5754	0.5754		0.5414	0.5414	0.0000	2,497.6449	2,497.6449	0.6484		2,513.8559
Total	1.1874	12.2690	17.2437	0.0259		0.5754	0.5754		0.5414	0.5414	0.0000	2,497.6449	2,497.6449	0.6484		2,513.8559

SoCalGas - Los Angeles-South Coast County, Summer

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

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0767	1.9104	0.6550	7.6400e-003	0.2498	0.0182	0.2680	0.0719	0.0174	0.0893		820.8002	820.8002	0.0274	0.1183	856.7330
Worker	0.3323	0.2426	3.7837	9.8200e-003	1.0731	6.8800e-003	1.0799	0.2846	6.3300e-003	0.2909		998.5220	998.5220	0.0270	0.0240	1,006.3563
Total	0.4090	2.1530	4.4387	0.0175	1.3229	0.0251	1.3479	0.3565	0.0237	0.3803		1,819.3222	1,819.3222	0.0545	0.1423	1,863.0893

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1051	11.3895	17.2132	0.0260		0.4906	0.4906		0.4616	0.4616		2,498.8055	2,498.8055	0.6457		2,514.9477
Total	1.1051	11.3895	17.2132	0.0260		0.4906	0.4906		0.4616	0.4616		2,498.8055	2,498.8055	0.6457		2,514.9477

SoCalGas - Los Angeles-South Coast County, Summer

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

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0449	1.4970	0.5799	7.2600e-003	0.2498	7.5300e-003	0.2573	0.0719	7.2000e-003	0.0791		781.1017	781.1017	0.0262	0.1123	815.2213
Worker	0.3074	0.2143	3.4788	9.5000e-003	1.0731	6.4700e-003	1.0795	0.2846	5.9600e-003	0.2905		972.1083	972.1083	0.0242	0.0222	979.3160
Total	0.3523	1.7113	4.0587	0.0168	1.3229	0.0140	1.3369	0.3565	0.0132	0.3697		1,753.2099	1,753.2099	0.0504	0.1345	1,794.5373

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1051	11.3895	17.2132	0.0260		0.4906	0.4906		0.4616	0.4616	0.0000	2,498.8055	2,498.8055	0.6457		2,514.9476
Total	1.1051	11.3895	17.2132	0.0260		0.4906	0.4906		0.4616	0.4616	0.0000	2,498.8055	2,498.8055	0.6457		2,514.9476

SoCalGas - Los Angeles-South Coast County, Summer

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

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0449	1.4970	0.5799	7.2600e-003	0.2498	7.5300e-003	0.2573	0.0719	7.2000e-003	0.0791		781.1017	781.1017	0.0262	0.1123	815.2213
Worker	0.3074	0.2143	3.4788	9.5000e-003	1.0731	6.4700e-003	1.0795	0.2846	5.9600e-003	0.2905		972.1083	972.1083	0.0242	0.0222	979.3160
Total	0.3523	1.7113	4.0587	0.0168	1.3229	0.0140	1.3369	0.3565	0.0132	0.3697		1,753.2099	1,753.2099	0.0504	0.1345	1,794.5373

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0518	10.8097	17.2240	0.0260		0.4333	0.4333		0.4075	0.4075		2,499.1735	2,499.1735	0.6448		2,515.2925
Total	1.0518	10.8097	17.2240	0.0260		0.4333	0.4333		0.4075	0.4075		2,499.1735	2,499.1735	0.6448		2,515.2925

SoCalGas - Los Angeles-South Coast County, Summer

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

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0435	1.5000	0.5676	7.1400e-003	0.2498	7.5800e-003	0.2574	0.0719	7.2500e-003	0.0792		769.3710	769.3710	0.0263	0.1107	803.0256
Worker	0.2865	0.1914	3.2381	9.2300e-003	1.0731	6.2100e-003	1.0793	0.2846	5.7200e-003	0.2903		952.0694	952.0694	0.0219	0.0206	958.7571
Total	0.3300	1.6914	3.8057	0.0164	1.3229	0.0138	1.3367	0.3565	0.0130	0.3695		1,721.4404	1,721.4404	0.0482	0.1313	1,761.7828

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0518	10.8097	17.2240	0.0260		0.4333	0.4333		0.4075	0.4075	0.0000	2,499.1735	2,499.1735	0.6448		2,515.2925
Total	1.0518	10.8097	17.2240	0.0260		0.4333	0.4333		0.4075	0.4075	0.0000	2,499.1735	2,499.1735	0.6448		2,515.2925

SoCalGas - Los Angeles-South Coast County, Summer

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

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0435	1.5000	0.5676	7.1400e-003	0.2498	7.5800e-003	0.2574	0.0719	7.2500e-003	0.0792		769.3710	769.3710	0.0263	0.1107	803.0256
Worker	0.2865	0.1914	3.2381	9.2300e-003	1.0731	6.2100e-003	1.0793	0.2846	5.7200e-003	0.2903		952.0694	952.0694	0.0219	0.0206	958.7571
Total	0.3300	1.6914	3.8057	0.0164	1.3229	0.0138	1.3367	0.3565	0.0130	0.3695		1,721.4404	1,721.4404	0.0482	0.1313	1,761.7828

3.5 Paving - 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	3.9200	29.7168	27.3969	0.0996		1.0936	1.0936		1.0061	1.0061		9,637.4321	9,637.4321	3.1169		9,715.3556
Paving	0.5240					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	4.4440	29.7168	27.3969	0.0996		1.0936	1.0936		1.0061	1.0061		9,637.4321	9,637.4321	3.1169		9,715.3556

SoCalGas - Los Angeles-South Coast County, Summer

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

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0746	0.0498	0.8433	2.4000e-003	0.2794	1.6200e-003	0.2811	0.0741	1.4900e-003	0.0756		247.9347	247.9347	5.7000e-003	5.3700e-003	249.6763
Total	0.0746	0.0498	0.8433	2.4000e-003	0.2794	1.6200e-003	0.2811	0.0741	1.4900e-003	0.0756		247.9347	247.9347	5.7000e-003	5.3700e-003	249.6763

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.9200	29.7168	27.3969	0.0996		1.0936	1.0936		1.0061	1.0061	0.0000	9,637.4321	9,637.4321	3.1169		9,715.3556
Paving	0.5240					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	4.4440	29.7168	27.3969	0.0996		1.0936	1.0936		1.0061	1.0061	0.0000	9,637.4321	9,637.4321	3.1169		9,715.3556

SoCalGas - Los Angeles-South Coast County, Summer

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

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0746	0.0498	0.8433	2.4000e-003	0.2794	1.6200e-003	0.2811	0.0741	1.4900e-003	0.0756		247.9347	247.9347	5.7000e-003	5.3700e-003	249.6763
Total	0.0746	0.0498	0.8433	2.4000e-003	0.2794	1.6200e-003	0.2811	0.0741	1.4900e-003	0.0756		247.9347	247.9347	5.7000e-003	5.3700e-003	249.6763

3.6 Architectural Coating - 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					
Archit. Coating	11.4794					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	11.6602	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

SoCalGas - Los Angeles-South Coast County, Summer

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

3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0567	0.0379	0.6409	1.8300e-003	0.2124	1.2300e-003	0.2136	0.0563	1.1300e-003	0.0575		188.4304	188.4304	4.3400e-003	4.0800e-003	189.7540
Total	0.0567	0.0379	0.6409	1.8300e-003	0.2124	1.2300e-003	0.2136	0.0563	1.1300e-003	0.0575		188.4304	188.4304	4.3400e-003	4.0800e-003	189.7540

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	11.4794					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	11.6602	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

SoCalGas - Los Angeles-South Coast County, Summer

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

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0567	0.0379	0.6409	1.8300e-003	0.2124	1.2300e-003	0.2136	0.0563	1.1300e-003	0.0575		188.4304	188.4304	4.3400e-003	4.0800e-003	189.7540
Total	0.0567	0.0379	0.6409	1.8300e-003	0.2124	1.2300e-003	0.2136	0.0563	1.1300e-003	0.0575		188.4304	188.4304	4.3400e-003	4.0800e-003	189.7540

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

SoCalGas - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3615	3.3598	33.7798	0.0746	7.7917	0.0533	7.8450	2.0755	0.0495	2.1249		7,739.994 4	7,739.994 4	0.5000	0.3072	7,844.048 2
Unmitigated	3.3615	3.3598	33.7798	0.0746	7.7917	0.0533	7.8450	2.0755	0.0495	2.1249		7,739.994 4	7,739.994 4	0.5000	0.3072	7,844.048 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	1,148.83	1,148.83	1148.83	3,700,899	3,700,899
Parking Lot	0.00	0.00	0.00		
Total	1,148.83	1,148.83	1,148.83	3,700,899	3,700,899

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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
General Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

5.0 Energy Detail

SoCalGas - Los Angeles-South Coast County, Summer

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

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	0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666
NaturalGas Unmitigated	0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666

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					
General Office Building	1233.39	0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666
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		0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666

SoCalGas - Los Angeles-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1.23339	0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666
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		0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0018	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242
Unmitigated	1.0018	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242

SoCalGas - Los Angeles-South Coast County, Summer

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9339					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0100e-003	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242
Total	1.0018	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242

SoCalGas - Los Angeles-South Coast County, Summer

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

6.2 Area by SubCategory

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	0.0629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9339					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0100e-003	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242
Total	1.0018	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242

7.0 Water Detail

7.1 Mitigation Measures Water

SoCalGas - Los Angeles-South Coast 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

SoCalGas - Los Angeles-South Coast County, Winter

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

SoCalGas

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	43.67	1000sqft	0.62	43,665.00	0
Parking Lot	489.00	Space	4.40	195,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
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 - The first story is 26,900 sqf =0.62 acre

Parking space: 219 for new office building + 270 additional on-site parking

Construction Phase - per Construction questionnaire

Note, the questionnaire doesn't include the duration of paving and architectural coating, we use 1 month for conservative analysis.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire

Off-road Equipment - per construction questionnaire

Off-road Equipment - per construction questionnaire

Off-road Equipment - per construction questionnaire

Trips and VMT - per construction questionnaire

Demolition - per construction questionnaire

SoCalGas - Los Angeles-South Coast County, Winter

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

Grading - per construction questionnaire

Architectural Coating - Rule 1113

Vehicle Trips - 1146 trips/43.556=26.31

Area Coating - rule 1113

Construction Off-road Equipment Mitigation - rule 403

Area Mitigation - rule 1113

Waste Mitigation - ab341

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	230.00	393.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	6/28/2022	6/30/2022
tblConstructionPhase	PhaseEndDate	7/26/2022	8/1/2022
tblConstructionPhase	PhaseEndDate	6/13/2023	2/1/2024
tblConstructionPhase	PhaseEndDate	7/11/2023	3/4/2024
tblConstructionPhase	PhaseEndDate	8/8/2023	4/1/2024
tblConstructionPhase	PhaseStartDate	6/29/2022	7/1/2022
tblConstructionPhase	PhaseStartDate	7/27/2022	8/2/2022
tblConstructionPhase	PhaseStartDate	6/14/2023	2/2/2024
tblConstructionPhase	PhaseStartDate	7/12/2023	3/5/2024

SoCalGas - Los Angeles-South Coast County, Winter

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

tblGrading	MaterialImported	0.00	7,000.00
tblLandUse	LotAcreage	1.00	0.62
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

SoCalGas - Los Angeles-South Coast County, Winter

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

tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	6.00
tblVehicleTrips	ST_TR	2.21	26.31
tblVehicleTrips	SU_TR	0.70	26.31
tblVehicleTrips	WD_TR	9.74	26.31

2.0 Emissions Summary

SoCalGas - Los Angeles-South Coast County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.9925	59.4293	37.8702	0.1142	5.7838	2.0923	7.8761	0.7857	1.9267	2.7125	0.0000	11,384.73 13	11,384.73 13	2.8771	0.4364	11,586.71 44
2023	1.4788	13.1935	21.0089	0.0422	1.3229	0.5046	1.8275	0.3565	0.4748	0.8313	0.0000	4,202.082 4	4,202.082 4	0.6963	0.1363	4,260.096 6
2024	11.7213	29.7718	28.1727	0.1019	1.3229	1.0952	1.7700	0.3565	1.0076	1.0817	0.0000	9,872.317 0	9,872.317 0	3.1227	0.1330	9,952.092 6
Maximum	11.7213	59.4293	37.8702	0.1142	5.7838	2.0923	7.8761	0.7857	1.9267	2.7125	0.0000	11,384.73 13	11,384.73 13	3.1227	0.4364	11,586.71 44

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					
2022	4.9925	59.4293	37.8702	0.1142	2.7571	2.0923	4.8493	0.4579	1.9267	2.3846	0.0000	11,384.73 13	11,384.73 13	2.8771	0.4364	11,586.71 44
2023	1.4788	13.1935	21.0089	0.0422	1.3229	0.5046	1.8275	0.3565	0.4748	0.8313	0.0000	4,202.082 3	4,202.082 3	0.6963	0.1363	4,260.096 6
2024	11.7213	29.7718	28.1727	0.1019	1.3229	1.0952	1.7700	0.3565	1.0076	1.0817	0.0000	9,872.317 0	9,872.317 0	3.1227	0.1330	9,952.092 6
Maximum	11.7213	59.4293	37.8702	0.1142	2.7571	2.0923	4.8493	0.4579	1.9267	2.3846	0.0000	11,384.73 13	11,384.73 13	3.1227	0.4364	11,586.71 44

SoCalGas - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	35.91	0.00	26.38	21.87	0.00	7.09	0.00	0.00	0.00	0.00	0.00	0.00

SoCalGas - Los Angeles-South Coast County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0018	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242
Energy	0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666
Mobile	3.3003	3.6281	33.0827	0.0715	7.7917	0.0533	7.8450	2.0755	0.0495	2.1250		7,411.4857	7,411.4857	0.5144	0.3208	7,519.9473
Total	4.3153	3.7495	33.2386	0.0722	7.7917	0.0627	7.8544	2.0755	0.0589	2.1343		7,556.7066	7,556.7066	0.5175	0.3235	7,666.0380

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	1.0018	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242
Energy	0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666
Mobile	3.3003	3.6281	33.0827	0.0715	7.7917	0.0533	7.8450	2.0755	0.0495	2.1250		7,411.4857	7,411.4857	0.5144	0.3208	7,519.9473
Total	4.3153	3.7495	33.2386	0.0722	7.7917	0.0627	7.8544	2.0755	0.0589	2.1343		7,556.7066	7,556.7066	0.5175	0.3235	7,666.0380

SoCalGas - Los Angeles-South Coast County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/30/2022	5	22	
2	Grading	Grading	7/1/2022	8/1/2022	5	22	
3	Building Construction	Building Construction	8/2/2022	2/1/2024	5	393	
4	Paving	Paving	2/2/2024	3/4/2024	5	22	
5	Architectural Coating	Architectural Coating	3/5/2024	4/1/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 99

Acres of Paving: 4.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 65,498; Non-Residential Outdoor: 21,833; Striped Parking Area: 11,736 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Grading	Crawler Tractors	2	8.00	212	0.43
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Loaders	1	8.00	203	0.36

SoCalGas - Los Angeles-South Coast County, Winter

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

Grading	Scrapers	3	8.00	367	0.48
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	0	0.00	247	0.40
Building Construction	Rough Terrain Forklifts	3	8.00	100	0.40
Paving	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Paving	Off-Highway Trucks	6	8.00	402	0.38
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	0	0.00	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	0	0.00	46	0.45
Demolition	Off-Highway Trucks	4	8.00	402	0.38
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	6.00	0.00	247.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	0.00	875.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

SoCalGas - Los Angeles-South Coast County, Winter

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

Building Construction	7	96.00	39.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4317	0.0000	2.4317	0.3682	0.0000	0.3682			0.0000			0.0000
Off-Road	3.1412	25.4222	24.1896	0.0739		1.0146	1.0146		0.9454	0.9454		7,142.911 1	7,142.911 1	2.1508		7,196.681 4
Total	3.1412	25.4222	24.1896	0.0739	2.4317	1.0146	3.4463	0.3682	0.9454	1.3136		7,142.911 1	7,142.911 1	2.1508		7,196.681 4

SoCalGas - Los Angeles-South Coast County, Winter

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

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0511	1.9621	0.4474	6.9800e-003	0.1965	0.0140	0.2106	0.0539	0.0134	0.0673		764.5494	764.5494	0.0405	0.1213	801.7129
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0222	0.0168	0.2171	5.8000e-004	0.0671	4.3000e-004	0.0675	0.0178	4.0000e-004	0.0182		59.1080	59.1080	1.7100e-003	1.6000e-003	59.6288
Total	0.0733	1.9789	0.6645	7.5600e-003	0.2636	0.0145	0.2781	0.0717	0.0138	0.0855		823.6574	823.6574	0.0422	0.1229	861.3417

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.9010	0.0000	0.9010	0.1364	0.0000	0.1364			0.0000			0.0000
Off-Road	3.1412	25.4222	24.1896	0.0739		1.0146	1.0146		0.9454	0.9454	0.0000	7,142.9111	7,142.9111	2.1508		7,196.6814
Total	3.1412	25.4222	24.1896	0.0739	0.9010	1.0146	1.9155	0.1364	0.9454	1.0818	0.0000	7,142.9111	7,142.9111	2.1508		7,196.6814

SoCalGas - Los Angeles-South Coast County, Winter

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

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0511	1.9621	0.4474	6.9800e-003	0.1965	0.0140	0.2106	0.0539	0.0134	0.0673		764.5494	764.5494	0.0405	0.1213	801.7129
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0222	0.0168	0.2171	5.8000e-004	0.0671	4.3000e-004	0.0675	0.0178	4.0000e-004	0.0182		59.1080	59.1080	1.7100e-003	1.6000e-003	59.6288
Total	0.0733	1.9789	0.6645	7.5600e-003	0.2636	0.0145	0.2781	0.0717	0.0138	0.0855		823.6574	823.6574	0.0422	0.1229	861.3417

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8082	0.0000	4.8082	0.5207	0.0000	0.5207			0.0000			0.0000
Off-Road	4.7190	52.4086	35.3806	0.0871		2.0408	2.0408		1.8775	1.8775		8,430.0240	8,430.0240	2.7264		8,498.1850
Total	4.7190	52.4086	35.3806	0.0871	4.8082	2.0408	6.8490	0.5207	1.8775	2.3982		8,430.0240	8,430.0240	2.7264		8,498.1850

SoCalGas - Los Angeles-South Coast County, Winter

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

3.3 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1809	6.9509	1.5849	0.0247	0.6962	0.0497	0.7459	0.1909	0.0476	0.2385		2,708.4240	2,708.4240	0.1436	0.4297	2,840.0760
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0926	0.0698	0.9047	2.4200e-003	0.2794	1.7900e-003	0.2812	0.0741	1.6500e-003	0.0758		246.2833	246.2833	7.1200e-003	6.6800e-003	248.4534
Total	0.2735	7.0207	2.4896	0.0271	0.9756	0.0515	1.0271	0.2650	0.0492	0.3142		2,954.7072	2,954.7072	0.1507	0.4364	3,088.5294

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7815	0.0000	1.7815	0.1929	0.0000	0.1929			0.0000			0.0000
Off-Road	4.7190	52.4086	35.3806	0.0871		2.0408	2.0408		1.8775	1.8775	0.0000	8,430.0240	8,430.0240	2.7264		8,498.1850
Total	4.7190	52.4086	35.3806	0.0871	1.7815	2.0408	3.8222	0.1929	1.8775	2.0704	0.0000	8,430.0240	8,430.0240	2.7264		8,498.1850

SoCalGas - Los Angeles-South Coast County, Winter

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

3.3 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1809	6.9509	1.5849	0.0247	0.6962	0.0497	0.7459	0.1909	0.0476	0.2385		2,708.4240	2,708.4240	0.1436	0.4297	2,840.0760
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0926	0.0698	0.9047	2.4200e-003	0.2794	1.7900e-003	0.2812	0.0741	1.6500e-003	0.0758		246.2833	246.2833	7.1200e-003	6.6800e-003	248.4534
Total	0.2735	7.0207	2.4896	0.0271	0.9756	0.0515	1.0271	0.2650	0.0492	0.3142		2,954.7072	2,954.7072	0.1507	0.4364	3,088.5294

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1874	12.2690	17.2437	0.0259		0.5754	0.5754		0.5414	0.5414		2,497.6449	2,497.6449	0.6484		2,513.8559
Total	1.1874	12.2690	17.2437	0.0259		0.5754	0.5754		0.5414	0.5414		2,497.6449	2,497.6449	0.6484		2,513.8559

SoCalGas - Los Angeles-South Coast County, Winter

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

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0758	1.9891	0.6776	7.6400e-003	0.2498	0.0183	0.2681	0.0719	0.0175	0.0894		821.1086	821.1086	0.0273	0.1184	857.0847
Worker	0.3557	0.2680	3.4740	9.3000e-003	1.0731	6.8800e-003	1.0799	0.2846	6.3300e-003	0.2909		945.7278	945.7278	0.0274	0.0257	954.0609
Total	0.4315	2.2572	4.1516	0.0169	1.3229	0.0251	1.3480	0.3565	0.0238	0.3803		1,766.8364	1,766.8364	0.0547	0.1441	1,811.1456

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1874	12.2690	17.2437	0.0259		0.5754	0.5754		0.5414	0.5414	0.0000	2,497.6449	2,497.6449	0.6484		2,513.8559
Total	1.1874	12.2690	17.2437	0.0259		0.5754	0.5754		0.5414	0.5414	0.0000	2,497.6449	2,497.6449	0.6484		2,513.8559

SoCalGas - Los Angeles-South Coast County, Winter

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

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0758	1.9891	0.6776	7.6400e-003	0.2498	0.0183	0.2681	0.0719	0.0175	0.0894		821.1086	821.1086	0.0273	0.1184	857.0847
Worker	0.3557	0.2680	3.4740	9.3000e-003	1.0731	6.8800e-003	1.0799	0.2846	6.3300e-003	0.2909		945.7278	945.7278	0.0274	0.0257	954.0609
Total	0.4315	2.2572	4.1516	0.0169	1.3229	0.0251	1.3480	0.3565	0.0238	0.3803		1,766.8364	1,766.8364	0.0547	0.1441	1,811.1456

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1051	11.3895	17.2132	0.0260		0.4906	0.4906		0.4616	0.4616		2,498.8055	2,498.8055	0.6457		2,514.9477
Total	1.1051	11.3895	17.2132	0.0260		0.4906	0.4906		0.4616	0.4616		2,498.8055	2,498.8055	0.6457		2,514.9477

SoCalGas - Los Angeles-South Coast County, Winter

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

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0434	1.5673	0.5982	7.2700e-003	0.2498	7.5700e-003	0.2574	0.0719	7.2400e-003	0.0792		782.4192	782.4192	0.0261	0.1126	816.6253
Worker	0.3303	0.2368	3.1976	9.0000e-003	1.0731	6.4700e-003	1.0795	0.2846	5.9600e-003	0.2905		920.8576	920.8576	0.0245	0.0237	928.5237
Total	0.3737	1.8040	3.7957	0.0163	1.3229	0.0140	1.3369	0.3565	0.0132	0.3697		1,703.2768	1,703.2768	0.0506	0.1363	1,745.1490

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1051	11.3895	17.2132	0.0260		0.4906	0.4906		0.4616	0.4616	0.0000	2,498.8055	2,498.8055	0.6457		2,514.9476
Total	1.1051	11.3895	17.2132	0.0260		0.4906	0.4906		0.4616	0.4616	0.0000	2,498.8055	2,498.8055	0.6457		2,514.9476

SoCalGas - Los Angeles-South Coast County, Winter

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

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0434	1.5673	0.5982	7.2700e-003	0.2498	7.5700e-003	0.2574	0.0719	7.2400e-003	0.0792		782.4192	782.4192	0.0261	0.1126	816.6253
Worker	0.3303	0.2368	3.1976	9.0000e-003	1.0731	6.4700e-003	1.0795	0.2846	5.9600e-003	0.2905		920.8576	920.8576	0.0245	0.0237	928.5237
Total	0.3737	1.8040	3.7957	0.0163	1.3229	0.0140	1.3369	0.3565	0.0132	0.3697		1,703.2768	1,703.2768	0.0506	0.1363	1,745.1490

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0518	10.8097	17.2240	0.0260		0.4333	0.4333		0.4075	0.4075		2,499.1735	2,499.1735	0.6448		2,515.2925
Total	1.0518	10.8097	17.2240	0.0260		0.4333	0.4333		0.4075	0.4075		2,499.1735	2,499.1735	0.6448		2,515.2925

SoCalGas - Los Angeles-South Coast County, Winter

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

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0419	1.5705	0.5856	7.1600e-003	0.2498	7.6200e-003	0.2574	0.0719	7.2900e-003	0.0792		770.6959	770.6959	0.0262	0.1110	804.4344
Worker	0.3089	0.2114	2.9790	8.7400e-003	1.0731	6.2100e-003	1.0793	0.2846	5.7200e-003	0.2903		901.9583	901.9583	0.0222	0.0220	909.0702
Total	0.3508	1.7819	3.5646	0.0159	1.3229	0.0138	1.3367	0.3565	0.0130	0.3695		1,672.6542	1,672.6542	0.0484	0.1330	1,713.5046

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0518	10.8097	17.2240	0.0260		0.4333	0.4333		0.4075	0.4075	0.0000	2,499.1735	2,499.1735	0.6448		2,515.2925
Total	1.0518	10.8097	17.2240	0.0260		0.4333	0.4333		0.4075	0.4075	0.0000	2,499.1735	2,499.1735	0.6448		2,515.2925

SoCalGas - Los Angeles-South Coast County, Winter

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

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0419	1.5705	0.5856	7.1600e-003	0.2498	7.6200e-003	0.2574	0.0719	7.2900e-003	0.0792		770.6959	770.6959	0.0262	0.1110	804.4344
Worker	0.3089	0.2114	2.9790	8.7400e-003	1.0731	6.2100e-003	1.0793	0.2846	5.7200e-003	0.2903		901.9583	901.9583	0.0222	0.0220	909.0702
Total	0.3508	1.7819	3.5646	0.0159	1.3229	0.0138	1.3367	0.3565	0.0130	0.3695		1,672.6542	1,672.6542	0.0484	0.1330	1,713.5046

3.5 Paving - 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	3.9200	29.7168	27.3969	0.0996		1.0936	1.0936		1.0061	1.0061		9,637.4321	9,637.4321	3.1169		9,715.3556
Paving	0.5240					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	4.4440	29.7168	27.3969	0.0996		1.0936	1.0936		1.0061	1.0061		9,637.4321	9,637.4321	3.1169		9,715.3556

SoCalGas - Los Angeles-South Coast County, Winter

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

3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0804	0.0550	0.7758	2.2800e-003	0.2794	1.6200e-003	0.2811	0.0741	1.4900e-003	0.0756		234.8850	234.8850	5.7900e-003	5.7300e-003	236.7370
Total	0.0804	0.0550	0.7758	2.2800e-003	0.2794	1.6200e-003	0.2811	0.0741	1.4900e-003	0.0756		234.8850	234.8850	5.7900e-003	5.7300e-003	236.7370

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.9200	29.7168	27.3969	0.0996		1.0936	1.0936		1.0061	1.0061	0.0000	9,637.4321	9,637.4321	3.1169		9,715.3556
Paving	0.5240					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	4.4440	29.7168	27.3969	0.0996		1.0936	1.0936		1.0061	1.0061	0.0000	9,637.4321	9,637.4321	3.1169		9,715.3556

SoCalGas - Los Angeles-South Coast County, Winter

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

3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0804	0.0550	0.7758	2.2800e-003	0.2794	1.6200e-003	0.2811	0.0741	1.4900e-003	0.0756		234.8850	234.8850	5.7900e-003	5.7300e-003	236.7370
Total	0.0804	0.0550	0.7758	2.2800e-003	0.2794	1.6200e-003	0.2811	0.0741	1.4900e-003	0.0756		234.8850	234.8850	5.7900e-003	5.7300e-003	236.7370

3.6 Architectural Coating - 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					
Archit. Coating	11.4794					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	11.6602	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

SoCalGas - Los Angeles-South Coast County, Winter

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

3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0611	0.0418	0.5896	1.7300e-003	0.2124	1.2300e-003	0.2136	0.0563	1.1300e-003	0.0575		178.5126	178.5126	4.4000e-003	4.3500e-003	179.9202
Total	0.0611	0.0418	0.5896	1.7300e-003	0.2124	1.2300e-003	0.2136	0.0563	1.1300e-003	0.0575		178.5126	178.5126	4.4000e-003	4.3500e-003	179.9202

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	11.4794					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	11.6602	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

SoCalGas - Los Angeles-South Coast County, Winter

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

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0611	0.0418	0.5896	1.7300e-003	0.2124	1.2300e-003	0.2136	0.0563	1.1300e-003	0.0575		178.5126	178.5126	4.4000e-003	4.3500e-003	179.9202
Total	0.0611	0.0418	0.5896	1.7300e-003	0.2124	1.2300e-003	0.2136	0.0563	1.1300e-003	0.0575		178.5126	178.5126	4.4000e-003	4.3500e-003	179.9202

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

SoCalGas - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3003	3.6281	33.0827	0.0715	7.7917	0.0533	7.8450	2.0755	0.0495	2.1250		7,411.4857	7,411.4857	0.5144	0.3208	7,519.9473
Unmitigated	3.3003	3.6281	33.0827	0.0715	7.7917	0.0533	7.8450	2.0755	0.0495	2.1250		7,411.4857	7,411.4857	0.5144	0.3208	7,519.9473

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	1,148.83	1,148.83	1148.83	3,700,899	3,700,899
Parking Lot	0.00	0.00	0.00		
Total	1,148.83	1,148.83	1,148.83	3,700,899	3,700,899

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
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
General Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

5.0 Energy Detail

SoCalGas - Los Angeles-South Coast County, Winter

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

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	0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666
NaturalGas Unmitigated	0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666

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					
General Office Building	1233.39	0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666
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		0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666

SoCalGas - Los Angeles-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1.23339	0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666
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		0.0133	0.1209	0.1016	7.3000e-004		9.1900e-003	9.1900e-003		9.1900e-003	9.1900e-003		145.1043	145.1043	2.7800e-003	2.6600e-003	145.9666

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0018	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242
Unmitigated	1.0018	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242

SoCalGas - Los Angeles-South Coast County, Winter

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9339					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0100e-003	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242
Total	1.0018	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242

SoCalGas - Los Angeles-South Coast County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9339					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0100e-003	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242
Total	1.0018	4.9000e-004	0.0543	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1166	0.1166	3.0000e-004		0.1242

7.0 Water Detail

7.1 Mitigation Measures Water

SoCalGas - Los Angeles-South Coast County, Winter

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

**SoCalGas Office Building Project
Energy Calculations**

Land Use	Natural Gas Use		Electricity Use	
	(kBTU/yr)	(Therms)	(kWh/yr)	(MWh/yr)
General Office Building	450,186	4,502	545,813	546
Parking Lot	0	0	68,460	68
Totals	450,186	4,502	614,273	614

1 kBTU = 0.01 therms

Energy Type	Project Annual Energy Consumption	Los Angeles County Annual Energy Consumption (2020)	Percentage Increase Countywide
Electricity (MWh)	614	65,649,878	0.0009%
Natural Gas (Therms)	4,502	2,936,687,098	0.0002%

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

SoCalGas Office Building Project Energy Calculations

Vehicle Type	Percent of Vehicle Trips ¹	Daily Trips ²	Annual Vehicle Miles Traveled	Average Fuel Economy (miles per gallon) ³	Total Annual Fuel Consumption (gallons) ⁴
Passenger Cars	0.54	624	2,016,546	22	91,661
Light/Medium Trucks	0.39	448	1,446,726	17.3	83,626
Heavy Trucks/Other	0.06	74	237,631	6.4	37,130
TOTAL⁶	1.00	1,146	3,700,899	--	212,417
Notes:					
1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.					
2. Daily Trips taken from ITE manual.					
3. Average fuel economy derived from the Department of Transportation.					
4. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).					
5. Values may be slightly off due to rounding.					
Source: Refer to CalEEMod outputs for assumptions used in this analysis.					

County On-Road
2024
3,688,778,128
0.0058%

**SoCalGas Office Building Project
Energy Calculations**

WORKER TRIPS						
Phase	Phase Length (# days)	# Worker Trips	Worker Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Demolition	22	6	14.7	1940		77.92
Grading	22	25	14.7	8085		324.66
Building Construction	393	96	14.7	554602	24.90284233	22270.61
Paving	22	25	14.7	8085		324.66
Architectural Coating	20	19	14.7	5586		224.31
						23222.17
VENDOR TRIPS						
Phase	Phase Length (# days)	# Vendor Trips	Vendor Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Demolition	22	0	6.9	0		0.00
Grading	22	0	6.9	0		0.00
Building Construction	393	39	6.9	269	8.343886151	32.25
Paving	22	0	6.9	0		0.00
Architectural Coating	20	0	6.9	0		0.00
						32.25
HAULING TRIPS						
Phase	Phase Length (# days)	# Hauling Trips	Hauling Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Demolition	22	247	20	4940		592.05
Grading	22	875	20	17500		2097.34
Building Construction	393	0	20	0	8.343886151	0.00
Paving	22	0	20	0		0.00
Architectural Coating	20	0	20	0		0.00
						2689.39
TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION						25,943.81

**SoCalGas Office Building Project
Energy Calculations**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Demolition	Concrete/Industrial Saws	1	8	81	0.73	2.3652	8	22	416.28
Demolition	Excavators	1	8	158	0.38	2.4016	8	22	422.68
Demolition	Off-Highway Trucks	4	8	402	0.38	6.1104	32	22	4301.72
Demolition	Rubber Tired Loaders	1	8	203	0.36	2.9232	8	22	514.48
Demolition	Tractors/Loaders/Backhoes	1	8	97	0.37	1.4356	8	22	252.67
Grading	Crawler Tractors	2	8	212	0.43	3.6464	16	22	1283.53
Grading	Rollers	1	8	80	0.38	1.216	8	22	214.02
Grading	Rubber Tired Loaders	1	8	203	0.36	2.9232	8	22	514.48
Grading	Scrapers	3	8	367	0.48	7.0464	24	22	3720.50
Grading	Excavators	2	8	158	0.38	2.4016	16	22	845.36
Grading	Graders	1	8	187	0.41	3.0668	8	22	539.76
Building Construction	Concrete/Industrial Saws	1	8	81	0.73	2.3652	8	393	7436.19
Building Construction	Rough Terrain Forklifts	3	8	100	0.40	1.6	24	393	15091.20
Building Construction	Tractors/Loaders/Backhoes	3	8	97	0.37	1.4356	24	393	13540.58
Paving	Graders	1	8	187	0.41	3.0668	8	22	539.76
Paving	Off-Highway Trucks	6	8	402	0.38	6.1104	48	22	6452.58
Paving	Rubber Tired Loaders	1	8	203	0.36	2.9232	8	22	514.48
Paving	Pavers	1	8	130	0.42	2.184	8	22	384.38
Paving	Rollers	1	8	80	0.38	1.216	8	22	214.02
Architectural Coating	Air Compressors	1	6	78	0.48	1.4976	6	20	179.71
Total:									57,378
Off-Site Mobile Construction Total:									25,944
TOTAL:									83,322
Notes:									
Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor									
Where:									
Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.									
Source: Refer to CalEEMod outputs for assumptions used in this analysis.									