
Appendix C1

Air Quality, Greenhouse Gas Emissions, and Energy Calculations

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**123 Independence Drive Project
San Mateo County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	336.00	Space	0.00	128,880.00	0
Enclosed Parking with Elevator	180.00	Space	0.00	50,893.00	0
Other Asphalt Surfaces	61.24	1000sqft	1.41	61,239.00	0
Other Non-Asphalt Surfaces	295.47	1000sqft	6.78	295,469.00	0
Apartments Mid Rise	316.00	Dwelling Unit	8.32	289,223.00	904
Condo/Townhouse	116.00	Dwelling Unit	7.25	187,739.00	332

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2028
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	12	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 123 Independence Drive Project. Adjusted CO2 intensity per Pennensula Clean Energy report: 12 lb of CO2e per MWh.

Land Use - Project includes 316 Apartments and 116 Townhomes on a 8.15 acre site. 516 spaces in two parking garages (128880 SF and 50893 SF). 295469 SF of impervious area and 61239 of asphalt.

Construction Phase - Project would begin construction Sep 2023 and would be completed by Feb 2028.

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Off-road Equipment - Updated equipment per applicant. Other equipment includes stucco rigs (4) and paint sprayers (6).

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Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Updated trips per applicant. Haul average distance approx 28 miles per applicant.

Demolition - 103000 SF of existing office and 203000 SF of AC.

Grading - 5260 CY imported and 32000 CY exported.

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - Updated weekday trip generation rates per transportation analysis with 20% TDM Reduction.

Woodstoves - No wood or gas hearths/stoves.

Energy Use - Energy calculated in separate excel sheet.

Water And Wastewater - Updated per Water Budget Summary (PAE).

Solid Waste - Updated solid waste per applicant.

Construction Off-road Equipment Mitigation - Water twice daily for 55% reduction in PM.

Water Mitigation - Per applicant low-flow faucet and toilets used.

Stationary Sources - Emergency Generators and Fire Pumps - 300 KW, 464 BHP emergency generator per applicant. Tested for 1 hr/day and 50 hr/yr.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	35.00	45.00
tblConstructionPhase	NumDays	370.00	956.00

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tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	415.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1.75	0.41
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	T24E	90.83	0.00
tblEnergyUse	T24E	42.95	0.00
tblEnergyUse	T24E	3.50	0.00
tblEnergyUse	T24NG	5,828.01	0.00
tblEnergyUse	T24NG	18,214.40	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	47.40	0.00
tblFireplaces	NumberGas	17.40	0.00
tblFireplaces	NumberNoFireplace	12.64	316.00
tblFireplaces	NumberNoFireplace	4.64	116.00
tblFireplaces	NumberWood	53.72	0.00
tblFireplaces	NumberWood	19.72	0.00

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tblGrading	AcresOfGrading	135.00	105.00
tblGrading	AcresOfGrading	3.00	15.00
tblGrading	MaterialExported	0.00	32,000.00
tblGrading	MaterialImported	0.00	5,260.00
tblLandUse	LandUseSquareFeet	72,000.00	50,893.00
tblLandUse	LandUseSquareFeet	134,400.00	128,880.00
tblLandUse	LandUseSquareFeet	61,240.00	61,239.00
tblLandUse	LandUseSquareFeet	295,470.00	295,469.00
tblLandUse	LandUseSquareFeet	316,000.00	289,223.00
tblLandUse	LandUseSquareFeet	116,000.00	187,739.00
tblLandUse	LotAcreage	1.62	0.00
tblLandUse	LotAcreage	3.02	0.00
tblOffRoadEquipment	HorsePower	172.00	7.00
tblOffRoadEquipment	HorsePower	172.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	48.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblProjectCharacteristics	CO2IntensityFactor	203.98	12
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblSolidWaste	SolidWasteGenerationRate	145.36	205.40
tblSolidWaste	SolidWasteGenerationRate	53.36	75.40
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	HaulingTripNumber	1,392.00	200.00
tblTripsAndVMT	HaulingTripNumber	4,658.00	3,700.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,500.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	134.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	23.00	8.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00
tblTripsAndVMT	WorkerTripNumber	536.00	120.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	107.00	50.00
tblVehicleTrips	WD_TR	5.44	3.63
tblVehicleTrips	WD_TR	7.32	5.39
tblWater	IndoorWaterUseRate	20,588,672.10	11,850,446.00
tblWater	IndoorWaterUseRate	7,557,866.97	4,309,571.00

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tblWater	OutdoorWaterUseRate	12,979,815.02	172,781.00
tblWater	OutdoorWaterUseRate	4,764,742.22	541,778.00
tblWater	OutdoorWaterUseRate	0.00	69,379.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0675	0.8044	0.8613	2.2000e-003	0.2367	0.0275	0.2642	0.0356	0.0254	0.0610	0.0000	205.4562	205.4562	0.0499	0.0114	210.0927
2024	0.1633	1.7103	2.0134	4.9800e-003	0.1385	0.0638	0.2023	0.0282	0.0588	0.0870	0.0000	463.1717	463.1717	0.1074	0.0244	473.1308
2025	0.2276	2.0333	3.5445	6.4700e-003	0.1516	0.0830	0.2345	0.0408	0.0764	0.1172	0.0000	586.9899	586.9899	0.1411	0.0169	595.5609
2026	1.4974	7.1551	11.5903	0.0197	0.1797	0.3157	0.4954	0.0484	0.3079	0.3562	0.0000	1,725.9246	1,725.9246	0.2139	0.0179	1,736.6137
2027	2.7387	12.1648	19.4597	0.0326	0.2072	0.5433	0.7505	0.0557	0.5343	0.5900	0.0000	2,839.1428	2,839.1428	0.2855	0.0188	2,851.8843
2028	0.2855	1.5189	2.4987	4.2900e-003	0.0546	0.0661	0.1207	0.0147	0.0637	0.0784	0.0000	379.4130	379.4130	0.0586	5.4200e-003	382.4914
Maximum	2.7387	12.1648	19.4597	0.0326	0.2367	0.5433	0.7505	0.0557	0.5343	0.5900	0.0000	2,839.1428	2,839.1428	0.2855	0.0244	2,851.8843

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Area	2.3414	0.0370	3.2126	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.2552	5.2552	5.0600e-003	0.0000	5.3817
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.4012	0.4012	0.0000	0.0000	0.4012
Mobile	0.6690	0.5853	6.4258	0.0132	1.6190	8.1000e-003	1.6271	0.4325	7.5300e-003	0.4400	0.0000	1,219.9892	1,219.9892	0.0826	0.0538	1,238.0715
Stationary	0.0190	0.0532	0.0485	9.0000e-005		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	8.8345	8.8345	1.2400e-003	0.0000	8.8655
Waste						0.0000	0.0000		0.0000	0.0000	56.9999	0.0000	56.9999	3.3686	0.0000	141.2148
Water						0.0000	0.0000		0.0000	0.0000	5.1268	0.4909	5.6177	0.5266	0.0124	22.4873
Total	3.0294	0.6755	9.6870	0.0135	1.6190	0.0287	1.6477	0.4325	0.0281	0.4606	62.1267	1,234.9710	1,297.0977	3.9841	0.0662	1,416.4218

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Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.3414	0.0370	3.2126	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.2552	5.2552	5.0600e-003	0.0000	5.3817
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.4012	0.4012	0.0000	0.0000	0.4012
Mobile	0.6690	0.5853	6.4258	0.0132	1.6190	8.1000e-003	1.6271	0.4325	7.5300e-003	0.4400	0.0000	1,219.9892	1,219.9892	0.0826	0.0538	1,238.0715
Stationary	0.0190	0.0532	0.0485	9.0000e-005		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	8.8345	8.8345	1.2400e-003	0.0000	8.8655
Waste						0.0000	0.0000		0.0000	0.0000	56.9999	0.0000	56.9999	3.3686	0.0000	141.2148
Water						0.0000	0.0000		0.0000	0.0000	4.3270	0.4166	4.7437	0.4444	0.0105	18.9816
Total	3.0294	0.6755	9.6870	0.0135	1.6190	0.0287	1.6477	0.4325	0.0281	0.4606	61.3269	1,234.8968	1,296.2237	3.9019	0.0642	1,412.9161

	ROG	NOx	CO	SO2	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	1.29	0.01	0.07	2.06	2.93	0.25

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	9/1/2023	12/1/2023	5	66	
2	Site Preparation	Site Preparation	12/1/2023	12/10/2023	5	6	
3	Grading	Grading	12/11/2023	2/11/2024	5	45	
4	Building Construction	Building Construction	9/1/2024	5/1/2028	5	956	
5	Paving	Paving	11/1/2024	1/1/2025	5	44	
6	Architectural Coating	Architectural Coating	7/1/2026	2/1/2028	5	415	

Acres of Grading (Site Preparation Phase): 15**Acres of Grading (Grading Phase): 105****Acres of Paving: 8.19****Residential Indoor: 965,848; Residential Outdoor: 321,949; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 32,189**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	2	8.00	158	0.38
Demolition	Skid Steer Loaders	4	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Plate Compactors	1	8.00	8	0.43
Grading	Graders	2	8.00	187	0.41
Grading	Off-Highway Trucks	2	8.00	402	0.38
Grading	Plate Compactors	2	8.00	8	0.43
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Paving	Pavers	5	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Architectural Coating	Air Compressors	48	8.00	78	0.48
Architectural Coating	Forklifts	4	8.00	89	0.20
Architectural Coating	Other Construction Equipment	4	8.00	7	0.42
Architectural Coating	Other Construction Equipment	6	8.00	1	0.42

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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	9	8.00	3.00	200.00	10.80	7.30	28.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	6.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	8.00	3.00	3,700.00	10.80	7.30	28.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	120.00	20.00	3,500.00	10.80	7.30	28.00	LD_Mix	HDT_Mix	HHDT
Paving	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	62	50.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1506	0.0000	0.1506	0.0228	0.0000	0.0228	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0360	0.3684	0.6188	9.2000e-004		0.0164	0.0164		0.0151	0.0151	0.0000	81.0363	81.0363	0.0262	0.0000	81.6915
Total	0.0360	0.3684	0.6188	9.2000e-004	0.1506	0.0164	0.1670	0.0228	0.0151	0.0379	0.0000	81.0363	81.0363	0.0262	0.0000	81.6915

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	2.9000e-004	0.0213	6.7300e-003	9.0000e-005	2.3500e-003	1.4000e-004	2.4900e-003	6.5000e-004	1.4000e-004	7.8000e-004	0.0000	9.4484	9.4484	9.5000e-004	1.5200e-003	9.9259
Vendor	1.1000e-004	4.6600e-003	1.6700e-003	2.0000e-005	6.5000e-004	2.0000e-005	6.7000e-004	1.9000e-004	2.0000e-005	2.1000e-004	0.0000	2.1033	2.1033	1.3000e-004	3.1000e-004	2.1990
Worker	5.7000e-004	3.7000e-004	5.1200e-003	2.0000e-005	2.0800e-003	1.0000e-005	2.0900e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.5447	1.5447	4.0000e-005	4.0000e-005	1.5572

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Total	9.7000e-004	0.0263	0.0135	1.3000e-004	5.0800e-003	1.7000e-004	5.2500e-003	1.3900e-003	1.7000e-004	1.5500e-003	0.0000	13.0964	13.0964	1.1200e-003	1.8700e-003	13.6821
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0678	0.0000	0.0678	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0360	0.3684	0.6188	9.2000e-004		0.0164	0.0164		0.0151	0.0151	0.0000	81.0362	81.0362	0.0262	0.0000	81.6914
Total	0.0360	0.3684	0.6188	9.2000e-004	0.0678	0.0164	0.0841	0.0103	0.0151	0.0253	0.0000	81.0362	81.0362	0.0262	0.0000	81.6914

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	2.9000e-004	0.0213	6.7300e-003	9.0000e-005	2.3500e-003	1.4000e-004	2.4900e-003	6.5000e-004	1.4000e-004	7.8000e-004	0.0000	9.4484	9.4484	9.5000e-004	1.5200e-003	9.9259
Vendor	1.1000e-004	4.6600e-003	1.6700e-003	2.0000e-005	6.5000e-004	2.0000e-005	6.7000e-004	1.9000e-004	2.0000e-005	2.1000e-004	0.0000	2.1033	2.1033	1.3000e-004	3.1000e-004	2.1990
Worker	5.7000e-004	3.7000e-004	5.1200e-003	2.0000e-005	2.0800e-003	1.0000e-005	2.0900e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.5447	1.5447	4.0000e-005	4.0000e-005	1.5572

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	1.0000e-005	4.2000e-004	1.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1912	0.1912	1.0000e-005	3.0000e-005	0.1999
Worker	4.0000e-005	3.0000e-005	3.5000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1053	0.1053	0.0000	0.0000	0.1062
Total	5.0000e-005	4.5000e-004	5.0000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2965	0.2965	1.0000e-005	3.0000e-005	0.3061

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0578	0.0000	0.0578	6.3300e-003	0.0000	6.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2513	0.1699	5.3000e-004		9.2100e-003	9.2100e-003		8.4900e-003	8.4900e-003	0.0000	46.6114	46.6114	0.0150	0.0000	46.9857
Total	0.0257	0.2513	0.1699	5.3000e-004	0.0578	9.2100e-003	0.0670	6.3300e-003	8.4900e-003	0.0148	0.0000	46.6114	46.6114	0.0150	0.0000	46.9857

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
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
	Hauling	1.8200e-003	0.1313	0.0415	5.5000e-004	0.0145	8.8000e-004	0.0154	3.9800e-003	8.5000e-004	4.8200e-003	0.0000	58.2652	58.2652	5.8800e-003	9.3900e-003
Vendor	2.0000e-005	1.0600e-003	3.8000e-004	0.0000	1.5000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.4780	0.4780	3.0000e-005	7.0000e-005	0.4998
Worker	1.3000e-004	8.0000e-005	1.1600e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3511	0.3511	1.0000e-005	1.0000e-005	0.3539
Total	1.9700e-003	0.1325	0.0430	5.5000e-004	0.0151	8.9000e-004	0.0160	4.1500e-003	8.6000e-004	5.0000e-003	0.0000	59.0943	59.0943	5.9200e-003	9.4700e-003	62.0636

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					0.0260	0.0000	0.0260	2.8500e-003	0.0000	2.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2513	0.1699	5.3000e-004		9.2100e-003	9.2100e-003		8.4900e-003	8.4900e-003	0.0000	46.6114	46.6114	0.0150	0.0000	46.9857
Total	0.0257	0.2513	0.1699	5.3000e-004	0.0260	9.2100e-003	0.0352	2.8500e-003	8.4900e-003	0.0113	0.0000	46.6114	46.6114	0.0150	0.0000	46.9857

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
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
	Hauling	1.8200e-003	0.1313	0.0415	5.5000e-004	0.0145	8.8000e-004	0.0154	3.9800e-003	8.5000e-004	4.8200e-003	0.0000	58.2652	58.2652	5.8800e-003	9.3900e-003
Vendor	2.0000e-005	1.0600e-003	3.8000e-004	0.0000	1.5000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.4780	0.4780	3.0000e-005	7.0000e-005	0.4998
Worker	1.3000e-004	8.0000e-005	1.1600e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3511	0.3511	1.0000e-005	1.0000e-005	0.3539
Total	1.9700e-003	0.1325	0.0430	5.5000e-004	0.0151	8.9000e-004	0.0160	4.1500e-003	8.6000e-004	5.0000e-003	0.0000	59.0943	59.0943	5.9200e-003	9.4700e-003	62.0636

3.4 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0578	0.0000	0.0578	6.3300e-003	0.0000	6.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0496	0.4629	0.3325	1.0700e-003		0.0171	0.0171		0.0157	0.0157	0.0000	93.1979	93.1979	0.0299	0.0000	93.9463
Total	0.0496	0.4629	0.3325	1.0700e-003	0.0578	0.0171	0.0748	6.3300e-003	0.0157	0.0220	0.0000	93.1979	93.1979	0.0299	0.0000	93.9463

Unmitigated Construction Off-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.5900e-003	0.2586	0.0853	1.0800e-003	0.0290	1.7800e-003	0.0308	7.9600e-003	1.7000e-003	9.6600e-003	0.0000	114.5221	114.5221	0.0121	0.0185	120.3289
Vendor	5.0000e-005	2.1000e-003	7.6000e-004	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.9391	0.9391	6.0000e-005	1.4000e-004	0.9819
Worker	2.5000e-004	1.5000e-004	2.1900e-003	1.0000e-005	9.4000e-004	0.0000	9.5000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.6793	0.6793	2.0000e-005	2.0000e-005	0.6846
Total	3.8900e-003	0.2609	0.0883	1.1000e-003	0.0302	1.7900e-003	0.0320	8.2900e-003	1.7100e-003	0.0100	0.0000	116.1405	116.1405	0.0121	0.0186	121.9954

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					0.0260	0.0000	0.0260	2.8500e-003	0.0000	2.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0496	0.4629	0.3325	1.0700e-003		0.0171	0.0171		0.0157	0.0157	0.0000	93.1978	93.1978	0.0299	0.0000	93.9462
Total	0.0496	0.4629	0.3325	1.0700e-003	0.0260	0.0171	0.0431	2.8500e-003	0.0157	0.0186	0.0000	93.1978	93.1978	0.0299	0.0000	93.9462

Mitigated Construction Off-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.5900e-003	0.2586	0.0853	1.0800e-003	0.0290	1.7800e-003	0.0308	7.9600e-003	1.7000e-003	9.6600e-003	0.0000	114.5221	114.5221	0.0121	0.0185	120.3289
Vendor	5.0000e-005	2.1000e-003	7.6000e-004	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.9391	0.9391	6.0000e-005	1.4000e-004	0.9819
Worker	2.5000e-004	1.5000e-004	2.1900e-003	1.0000e-005	9.4000e-004	0.0000	9.5000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.6793	0.6793	2.0000e-005	2.0000e-005	0.6846
Total	3.8900e-003	0.2609	0.0883	1.1000e-003	0.0302	1.7900e-003	0.0320	8.2900e-003	1.7100e-003	0.0100	0.0000	116.1405	116.1405	0.0121	0.0186	121.9954

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0696	0.6538	1.0658	1.5300e-003		0.0322	0.0322		0.0297	0.0297	0.0000	134.3011	134.3011	0.0434	0.0000	135.3870
Total	0.0696	0.6538	1.0658	1.5300e-003		0.0322	0.0322		0.0297	0.0297	0.0000	134.3011	134.3011	0.0434	0.0000	135.3870

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-004	0.0334	0.0110	1.4000e-004	3.7400e-003	2.3000e-004	3.9700e-003	1.0300e-003	2.2000e-004	1.2500e-003	0.0000	14.7880	14.7880	1.5600e-003	2.3900e-003	15.5378
Vendor	9.0000e-004	0.0406	0.0146	1.8000e-004	5.6800e-003	2.1000e-004	5.8900e-003	1.6400e-003	2.0000e-004	1.8500e-003	0.0000	18.1556	18.1556	1.1600e-003	2.6800e-003	18.9834
Worker	0.0107	6.5900e-003	0.0951	3.2000e-004	0.0411	1.9000e-004	0.0413	0.0109	1.7000e-004	0.0111	0.0000	29.5494	29.5494	7.1000e-004	7.2000e-004	29.7806
Total	0.0120	0.0806	0.1208	6.4000e-004	0.0505	6.3000e-004	0.0511	0.0136	5.9000e-004	0.0142	0.0000	62.4930	62.4930	3.4300e-003	5.7900e-003	64.3018

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	0.0696	0.6538	1.0658	1.5300e-003		0.0322	0.0322		0.0297	0.0297	0.0000	134.3009	134.3009	0.0434	0.0000	135.3868
Total	0.0696	0.6538	1.0658	1.5300e-003		0.0322	0.0322		0.0297	0.0297	0.0000	134.3009	134.3009	0.0434	0.0000	135.3868

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-004	0.0334	0.0110	1.4000e-004	3.7400e-003	2.3000e-004	3.9700e-003	1.0300e-003	2.2000e-004	1.2500e-003	0.0000	14.7880	14.7880	1.5600e-003	2.3900e-003	15.5378
Vendor	9.0000e-004	0.0406	0.0146	1.8000e-004	5.6800e-003	2.1000e-004	5.8900e-003	1.6400e-003	2.0000e-004	1.8500e-003	0.0000	18.1556	18.1556	1.1600e-003	2.6800e-003	18.9834
Worker	0.0107	6.5900e-003	0.0951	3.2000e-004	0.0411	1.9000e-004	0.0413	0.0109	1.7000e-004	0.0111	0.0000	29.5494	29.5494	7.1000e-004	7.2000e-004	29.7806
Total	0.0120	0.0806	0.1208	6.4000e-004	0.0505	6.3000e-004	0.0511	0.0136	5.9000e-004	0.0142	0.0000	62.4930	62.4930	3.4300e-003	5.7900e-003	64.3018

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1924	1.7915	3.1883	4.5900e-003		0.0809	0.0809		0.0744	0.0744	0.0000	403.1257	403.1257	0.1304	0.0000	406.3852
Total	0.1924	1.7915	3.1883	4.5900e-003		0.0809	0.0809		0.0744	0.0744	0.0000	403.1257	403.1257	0.1304	0.0000	406.3852

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3700e-003	0.0983	0.0339	4.1000e-004	0.0112	6.9000e-004	0.0119	3.0800e-003	6.6000e-004	3.7400e-003	0.0000	43.4557	43.4557	4.7800e-003	7.0200e-003	45.6662
Vendor	2.6100e-003	0.1203	0.0439	5.2000e-004	0.0170	6.3000e-004	0.0177	4.9300e-003	6.1000e-004	5.5400e-003	0.0000	53.3968	53.3968	3.5600e-003	7.8900e-003	55.8368
Worker	0.0305	0.0179	0.2690	9.3000e-004	0.1233	5.4000e-004	0.1238	0.0328	5.0000e-004	0.0333	0.0000	85.6858	85.6858	1.9300e-003	2.0200e-003	86.3360
Total	0.0345	0.2365	0.3468	1.8600e-003	0.1516	1.8600e-003	0.1534	0.0408	1.7700e-003	0.0426	0.0000	182.5382	182.5382	0.0103	0.0169	187.8390

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	0.1924	1.7915	3.1883	4.5900e-003		0.0809	0.0809		0.0744	0.0744	0.0000	403.1252	403.1252	0.1304	0.0000	406.3847
Total	0.1924	1.7915	3.1883	4.5900e-003		0.0809	0.0809		0.0744	0.0744	0.0000	403.1252	403.1252	0.1304	0.0000	406.3847

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3700e-003	0.0983	0.0339	4.1000e-004	0.0112	6.9000e-004	0.0119	3.0800e-003	6.6000e-004	3.7400e-003	0.0000	43.4557	43.4557	4.7800e-003	7.0200e-003	45.6662
Vendor	2.6100e-003	0.1203	0.0439	5.2000e-004	0.0170	6.3000e-004	0.0177	4.9300e-003	6.1000e-004	5.5400e-003	0.0000	53.3968	53.3968	3.5600e-003	7.8900e-003	55.8368
Worker	0.0305	0.0179	0.2690	9.3000e-004	0.1233	5.4000e-004	0.1238	0.0328	5.0000e-004	0.0333	0.0000	85.6858	85.6858	1.9300e-003	2.0200e-003	86.3360
Total	0.0345	0.2365	0.3468	1.8600e-003	0.1516	1.8600e-003	0.1534	0.0408	1.7700e-003	0.0426	0.0000	182.5382	182.5382	0.0103	0.0169	187.8390

3.5 Building Construction - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1924	1.7915	3.1883	4.5900e-003		0.0809	0.0809		0.0744	0.0744	0.0000	403.1257	403.1257	0.1304	0.0000	406.3852
Total	0.1924	1.7915	3.1883	4.5900e-003		0.0809	0.0809		0.0744	0.0744	0.0000	403.1257	403.1257	0.1304	0.0000	406.3852

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3500e-003	0.0963	0.0347	4.0000e-004	0.0112	6.8000e-004	0.0119	3.0900e-003	6.5000e-004	3.7400e-003	0.0000	42.5551	42.5551	4.8900e-003	6.8800e-003	44.7274
Vendor	2.5500e-003	0.1187	0.0441	5.1000e-004	0.0170	6.3000e-004	0.0177	4.9300e-003	6.0000e-004	5.5300e-003	0.0000	52.3588	52.3588	3.6400e-003	7.7400e-003	54.7567
Worker	0.0294	0.0164	0.2559	9.1000e-004	0.1233	5.1000e-004	0.1238	0.0328	4.7000e-004	0.0333	0.0000	83.2134	83.2134	1.7700e-003	1.9200e-003	83.8294
Total	0.0333	0.2315	0.3346	1.8200e-003	0.1516	1.8200e-003	0.1534	0.0408	1.7200e-003	0.0426	0.0000	178.1273	178.1273	0.0103	0.0165	183.3134

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	0.1924	1.7915	3.1883	4.5900e-003		0.0809	0.0809		0.0744	0.0744	0.0000	403.1252	403.1252	0.1304	0.0000	406.3847

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	0.1924	1.7915	3.1883	4.5900e-003		0.0809	0.0809		0.0744	0.0744	0.0000	403.1252	403.1252	0.1304	0.0000	406.3847
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3500e-003	0.0963	0.0347	4.0000e-004	0.0112	6.8000e-004	0.0119	3.0900e-003	6.5000e-004	3.7400e-003	0.0000	42.5551	42.5551	4.8900e-003	6.8800e-003	44.7274
Vendor	2.5500e-003	0.1187	0.0441	5.1000e-004	0.0170	6.3000e-004	0.0177	4.9300e-003	6.0000e-004	5.5300e-003	0.0000	52.3588	52.3588	3.6400e-003	7.7400e-003	54.7567
Worker	0.0294	0.0164	0.2559	9.1000e-004	0.1233	5.1000e-004	0.1238	0.0328	4.7000e-004	0.0333	0.0000	83.2134	83.2134	1.7700e-003	1.9200e-003	83.8294
Total	0.0333	0.2315	0.3346	1.8200e-003	0.1516	1.8200e-003	0.1534	0.0408	1.7200e-003	0.0426	0.0000	178.1273	178.1273	0.0103	0.0165	183.3134

3.5 Building Construction - 2027

Unmitigated Construction On-Site

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.1924	1.7915	3.1883	4.5900e-003		0.0809	0.0809		0.0744	0.0744	0.0000	403.1257	403.1257	0.1304	0.0000	406.3852
Total	0.1924	1.7915	3.1883	4.5900e-003		0.0809	0.0809		0.0744	0.0744	0.0000	403.1257	403.1257	0.1304	0.0000	406.3852

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3300e-003	0.0943	0.0354	3.9000e-004	0.0112	6.7000e-004	0.0119	3.0900e-003	6.5000e-004	3.7300e-003	0.0000	41.5679	41.5679	4.9800e-003	6.7300e-003	43.6968
Vendor	2.4900e-003	0.1171	0.0442	5.0000e-004	0.0170	6.3000e-004	0.0177	4.9300e-003	6.0000e-004	5.5300e-003	0.0000	51.2423	51.2423	3.7000e-003	7.5800e-003	53.5942
Worker	0.0283	0.0153	0.2450	8.8000e-004	0.1233	4.8000e-004	0.1238	0.0328	4.4000e-004	0.0333	0.0000	81.0568	81.0568	1.6300e-003	1.8400e-003	81.6449
Total	0.0321	0.2266	0.3246	1.7700e-003	0.1516	1.7800e-003	0.1533	0.0408	1.6900e-003	0.0425	0.0000	173.8670	173.8670	0.0103	0.0162	178.9359

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					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.1924	1.7915	3.1883	4.5900e-003		0.0809	0.0809		0.0744	0.0744	0.0000	403.1252	403.1252	0.1304	0.0000	406.3847
Total	0.1924	1.7915	3.1883	4.5900e-003		0.0809	0.0809		0.0744	0.0744	0.0000	403.1252	403.1252	0.1304	0.0000	406.3847

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3300e-003	0.0943	0.0354	3.9000e-004	0.0112	6.7000e-004	0.0119	3.0900e-003	6.5000e-004	3.7300e-003	0.0000	41.5679	41.5679	4.9800e-003	6.7300e-003	43.6968
Vendor	2.4900e-003	0.1171	0.0442	5.0000e-004	0.0170	6.3000e-004	0.0177	4.9300e-003	6.0000e-004	5.5300e-003	0.0000	51.2423	51.2423	3.7000e-003	7.5800e-003	53.5942
Worker	0.0283	0.0153	0.2450	8.8000e-004	0.1233	4.8000e-004	0.1238	0.0328	4.4000e-004	0.0333	0.0000	81.0568	81.0568	1.6300e-003	1.8400e-003	81.6449
Total	0.0321	0.2266	0.3246	1.7700e-003	0.1516	1.7800e-003	0.1533	0.0408	1.6900e-003	0.0425	0.0000	173.8670	173.8670	0.0103	0.0162	178.9359

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Off-Road	0.0634	0.5903	1.0506	1.5100e-003		0.0266	0.0266		0.0245	0.0245	0.0000	132.8307	132.8307	0.0430	0.0000	133.9047
Total	0.0634	0.5903	1.0506	1.5100e-003		0.0266	0.0266		0.0245	0.0245	0.0000	132.8307	132.8307	0.0430	0.0000	133.9047

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	4.3000e-004	0.0305	0.0119	1.2000e-004	3.7000e-003	2.2000e-004	3.9200e-003	1.0200e-003	2.1000e-004	1.2300e-003	0.0000	13.3782	13.3782	1.6700e-003	2.1700e-003	14.0657
Vendor	8.1000e-004	0.0382	0.0146	1.6000e-004	5.6200e-003	2.0000e-004	5.8200e-003	1.6200e-003	2.0000e-004	1.8200e-003	0.0000	16.5354	16.5354	1.2400e-003	2.4500e-003	17.2959
Worker	8.9800e-003	4.7000e-003	0.0777	2.8000e-004	0.0406	1.5000e-004	0.0408	0.0108	1.4000e-004	0.0110	0.0000	26.0788	26.0788	5.0000e-004	5.8000e-004	26.2650
Total	0.0102	0.0733	0.1042	5.6000e-004	0.0499	5.7000e-004	0.0505	0.0135	5.5000e-004	0.0140	0.0000	55.9924	55.9924	3.4100e-003	5.2000e-003	57.6266

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0634	0.5903	1.0506	1.5100e-003		0.0266	0.0266		0.0245	0.0245	0.0000	132.8305	132.8305	0.0430	0.0000	133.9045
Total	0.0634	0.5903	1.0506	1.5100e-003		0.0266	0.0266		0.0245	0.0245	0.0000	132.8305	132.8305	0.0430	0.0000	133.9045

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	4.3000e-004	0.0305	0.0119	1.2000e-004	3.7000e-003	2.2000e-004	3.9200e-003	1.0200e-003	2.1000e-004	1.2300e-003	0.0000	13.3782	13.3782	1.6700e-003	2.1700e-003	14.0657
Vendor	8.1000e-004	0.0382	0.0146	1.6000e-004	5.6200e-003	2.0000e-004	5.8200e-003	1.6200e-003	2.0000e-004	1.8200e-003	0.0000	16.5354	16.5354	1.2400e-003	2.4500e-003	17.2959
Worker	8.9800e-003	4.7000e-003	0.0777	2.8000e-004	0.0406	1.5000e-004	0.0408	0.0108	1.4000e-004	0.0110	0.0000	26.0788	26.0788	5.0000e-004	5.8000e-004	26.2650
Total	0.0102	0.0733	0.1042	5.6000e-004	0.0499	5.7000e-004	0.0505	0.0135	5.5000e-004	0.0140	0.0000	55.9924	55.9924	3.4100e-003	5.2000e-003	57.6266

3.6 Paving - 2024

Unmitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0264	0.2522	0.4060	6.5000e-004		0.0120	0.0120		0.0111	0.0111	0.0000	57.0393	57.0393	0.0185	0.0000	57.5005
Paving	1.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0282	0.2522	0.4060	6.5000e-004		0.0120	0.0120		0.0111	0.0111	0.0000	57.0393	57.0393	0.0185	0.0000	57.5005

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5102					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7550	5.1137	8.0078	0.0130		0.2328	0.2328		0.2316	0.2316	0.0000	1,120.5161	1,120.5161	0.0724	0.0000	1,122.3267
Total	1.2653	5.1137	8.0078	0.0130		0.2328	0.2328		0.2316	0.2316	0.0000	1,120.5161	1,120.5161	0.0724	0.0000	1,122.3267

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	0.0150	5.5700e-003	6.0000e-005	2.1500e-003	8.0000e-005	2.2300e-003	6.2000e-004	8.0000e-005	7.0000e-004	0.0000	6.6201	6.6201	4.6000e-004	9.8000e-004	6.9233
Worker	6.1900e-003	3.4600e-003	0.0539	1.9000e-004	0.0260	1.1000e-004	0.0261	6.9100e-003	1.0000e-004	7.0100e-003	0.0000	17.5354	17.5354	3.7000e-004	4.0000e-004	17.6652

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	6.5100e-003	0.0185	0.0595	2.5000e-004	0.0281	1.9000e-004	0.0283	7.5300e-003	1.8000e-004	7.7100e-003	0.0000	24.1555	24.1555	8.3000e-004	1.3800e-003	24.5885
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5102					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7550	5.1136	8.0078	0.0130		0.2328	0.2328		0.2316	0.2316	0.0000	1,120.5148	1,120.5148	0.0724	0.0000	1,122.3253
Total	1.2653	5.1136	8.0078	0.0130		0.2328	0.2328		0.2316	0.2316	0.0000	1,120.5148	1,120.5148	0.0724	0.0000	1,122.3253

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	0.0150	5.5700e-003	6.0000e-005	2.1500e-003	8.0000e-005	2.2300e-003	6.2000e-004	8.0000e-005	7.0000e-004	0.0000	6.6201	6.6201	4.6000e-004	9.8000e-004	6.9233
Worker	6.1900e-003	3.4600e-003	0.0539	1.9000e-004	0.0260	1.1000e-004	0.0261	6.9100e-003	1.0000e-004	7.0100e-003	0.0000	17.5354	17.5354	3.7000e-004	4.0000e-004	17.6652

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	6.2000e-004	0.0293	0.0110	1.3000e-004	4.2600e-003	1.6000e-004	4.4200e-003	1.2300e-003	1.5000e-004	1.3800e-003	0.0000	12.8106	12.8106	9.3000e-004	1.9000e-003	13.3986
Worker	0.0118	6.3500e-003	0.1021	3.7000e-004	0.0514	2.0000e-004	0.0516	0.0137	1.8000e-004	0.0139	0.0000	33.7737	33.7737	6.8000e-004	7.7000e-004	34.0187
Total	0.0124	0.0356	0.1131	5.0000e-004	0.0556	3.6000e-004	0.0560	0.0149	3.3000e-004	0.0152	0.0000	46.5842	46.5842	1.6100e-003	2.6700e-003	47.4173

3.7 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0850					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1258	0.8523	1.3346	2.1700e-003		0.0388	0.0388		0.0386	0.0386	0.0000	186.7527	186.7527	0.0121	0.0000	187.0544
Total	0.2109	0.8523	1.3346	2.1700e-003		0.0388	0.0388		0.0386	0.0386	0.0000	186.7527	186.7527	0.0121	0.0000	187.0544

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					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	2.4400e-003	9.4000e-004	1.0000e-005	3.6000e-004	1.0000e-005	3.7000e-004	1.0000e-004	1.0000e-005	1.2000e-004	0.0000	1.0575	1.0575	8.0000e-005	1.6000e-004	1.1061
Worker	9.6000e-004	5.0000e-004	8.2800e-003	3.0000e-005	4.3300e-003	2.0000e-005	4.3500e-003	1.1500e-003	1.0000e-005	1.1700e-003	0.0000	2.7797	2.7797	5.0000e-005	6.0000e-005	2.7996
Total	1.0100e-003	2.9400e-003	9.2200e-003	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	2.0000e-005	1.2900e-003	0.0000	3.8372	3.8372	1.3000e-004	2.2000e-004	3.9057

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	0.0850					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1258	0.8523	1.3346	2.1700e-003		0.0388	0.0388		0.0386	0.0386	0.0000	186.7525	186.7525	0.0121	0.0000	187.0542
Total	0.2109	0.8523	1.3346	2.1700e-003		0.0388	0.0388		0.0386	0.0386	0.0000	186.7525	186.7525	0.0121	0.0000	187.0542

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					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	2.4400e-003	9.4000e-004	1.0000e-005	3.6000e-004	1.0000e-005	3.7000e-004	1.0000e-004	1.0000e-005	1.2000e-004	0.0000	1.0575	1.0575	8.0000e-005	1.6000e-004	1.1061
Worker	9.6000e-004	5.0000e-004	8.2800e-003	3.0000e-005	4.3300e-003	2.0000e-005	4.3500e-003	1.1500e-003	1.0000e-005	1.1700e-003	0.0000	2.7797	2.7797	5.0000e-005	6.0000e-005	2.7996
Total	1.0100e-003	2.9400e-003	9.2200e-003	4.0000e-005	4.6900e-003	3.0000e-005	4.7200e-003	1.2500e-003	2.0000e-005	1.2900e-003	0.0000	3.8372	3.8372	1.3000e-004	2.2000e-004	3.9057

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	0.6690	0.5853	6.4258	0.0132	1.6190	8.1000e-003	1.6271	0.4325	7.5300e-003	0.4400	0.0000	1,219.9892	1,219.9892	0.0826	0.0538	1,238.0715
Unmitigated	0.6690	0.5853	6.4258	0.0132	1.6190	8.1000e-003	1.6271	0.4325	7.5300e-003	0.4400	0.0000	1,219.9892	1,219.9892	0.0826	0.0538	1,238.0715

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,147.08	1,551.56	1292.44	2,830,721	2,830,721
Condo/Townhouse	625.24	944.24	728.48	1,583,374	1,583,374
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,772.32	2,495.80	2,020.92	4,414,095	4,414,095

123 Independence Drive Project - San Mateo County, Annual

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	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
Apartments Mid Rise	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814
Condo/Townhouse	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814
Enclosed Parking with Elevator	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814
Other Asphalt Surfaces	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814
Other Non-Asphalt Surfaces	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	20866.1	0.1136	0.0000	0.0000	0.1136
Enclosed Parking with Elevator	52840.8	0.2876	0.0000	0.0000	0.2876
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.4012	0.0000	0.0000	0.4012

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	20866.1	0.1136	0.0000	0.0000	0.1136
Enclosed Parking with Elevator	52840.8	0.2876	0.0000	0.0000	0.2876
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.4012	0.0000	0.0000	0.4012

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.3414	0.0370	3.2126	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.2552	5.2552	5.0600e-003	0.0000	5.3817
Unmitigated	2.3414	0.0370	3.2126	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.2552	5.2552	5.0600e-003	0.0000	5.3817

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	0.3469					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8975					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0970	0.0370	3.2126	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.2552	5.2552	5.0600e-003	0.0000	5.3817
Total	2.3413	0.0370	3.2126	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.2552	5.2552	5.0600e-003	0.0000	5.3817

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3469					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8975					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0970	0.0370	3.2126	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.2552	5.2552	5.0600e-003	0.0000	5.3817
Total	2.3413	0.0370	3.2126	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.2552	5.2552	5.0600e-003	0.0000	5.3817

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.7437	0.4444	0.0105	18.9816
Unmitigated	5.6177	0.5266	0.0124	22.4873

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	11.8504 / 0.172781	4.1119	0.3862	9.1200e-003	16.4827
Condo/Townhouse	4.30957 / 0.541778	1.5045	0.1404	3.3200e-003	6.0033
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0.069379	1.3200e-003	0.0000	0.0000	1.3200e-003
Total		5.6177	0.5266	0.0124	22.4873

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	10.0018 / 0.172781	3.4710	0.3259	7.7000e-003	13.9119
Condo/Townhouse	3.63728 / 0.541778	1.2714	0.1185	2.8000e-003	5.0684
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0.069379	1.3200e-003	0.0000	0.0000	1.3200e-003
Total		4.7437	0.4444	0.0105	18.9816

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	56.9999	3.3686	0.0000	141.2148
Unmitigated	56.9999	3.3686	0.0000	141.2148

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	205.4	41.6943	2.4641	0.0000	103.2960
Condo/Townhouse	75.4	15.3055	0.9045	0.0000	37.9188
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		56.9999	3.3686	0.0000	141.2147

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	205.4	41.6943	2.4641	0.0000	103.2960
Condo/Townhouse	75.4	15.3055	0.9045	0.0000	37.9188
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		56.9999	3.3686	0.0000	141.2147

10.0 Stationary Equipment

10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0190	0.0532	0.0485	9.0000e-005		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	8.8345	8.8345	1.2400e-003	0.0000	8.8655

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	0.0190	0.0532	0.0485	9.0000e-005		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	8.8345	8.8345	1.2400e-003	0.0000	8.8655
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**123 Independence Drive Project
San Mateo County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	336.00	Space	0.00	128,880.00	0
Enclosed Parking with Elevator	180.00	Space	0.00	50,893.00	0
Other Asphalt Surfaces	61.24	1000sqft	1.41	61,239.00	0
Other Non-Asphalt Surfaces	295.47	1000sqft	6.78	295,469.00	0
Apartments Mid Rise	316.00	Dwelling Unit	8.32	289,223.00	904
Condo/Townhouse	116.00	Dwelling Unit	7.25	187,739.00	332

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2028
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	12	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 123 Independence Drive Project. Adjusted CO2 intensity per Pennensula Clean Energy report: 12 lb of CO2e per MWh.

Land Use - Project includes 316 Apartments and 116 Townhomes on a 8.15 acre site. 516 spaces in two parking garages (128880 SF and 50893 SF). 295469 SF of impervious area and 61239 of asphalt.

Construction Phase - Project would begin construction Sep 2023 and would be completed by Feb 2028.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Updated equipment per applicant. Other equipment includes stucco rigs (4) and paint sprayers (6).

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Updated trips per applicant. Haul average distance approx 28 miles per applicant.

Demolition - 103000 SF of existing office and 203000 SF of AC.

Grading - 5260 CY imported and 32000 CY exported.

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - Updated weekday trip generation rates per transportation analysis with 20% TDM Reduction.

Woodstoves - No wood or gas hearths/stoves.

Energy Use - Energy calculated in separate excel sheet.

Water And Wastewater - Updated per Water Budget Summary (PAE).

Solid Waste - Updated solid waste per applicant.

Construction Off-road Equipment Mitigation - Water twice daily for 55% reduction in PM.

Water Mitigation - Per applicant low-flow faucet and toilets used.

Stationary Sources - Emergency Generators and Fire Pumps - 300 KW, 464 BHP emergency generator per applicant. Tested for 1 hr/day and 50 hr/yr.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	35.00	45.00
tblConstructionPhase	NumDays	370.00	956.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	415.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1.75	0.41
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	T24E	90.83	0.00
tblEnergyUse	T24E	42.95	0.00
tblEnergyUse	T24E	3.50	0.00
tblEnergyUse	T24NG	5,828.01	0.00
tblEnergyUse	T24NG	18,214.40	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	47.40	0.00
tblFireplaces	NumberGas	17.40	0.00
tblFireplaces	NumberNoFireplace	12.64	316.00
tblFireplaces	NumberNoFireplace	4.64	116.00
tblFireplaces	NumberWood	53.72	0.00
tblFireplaces	NumberWood	19.72	0.00

123 Independence Drive Project - San Mateo County, Summer

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tblGrading	AcresOfGrading	135.00	105.00
tblGrading	AcresOfGrading	3.00	15.00
tblGrading	MaterialExported	0.00	32,000.00
tblGrading	MaterialImported	0.00	5,260.00
tblLandUse	LandUseSquareFeet	72,000.00	50,893.00
tblLandUse	LandUseSquareFeet	134,400.00	128,880.00
tblLandUse	LandUseSquareFeet	61,240.00	61,239.00
tblLandUse	LandUseSquareFeet	295,470.00	295,469.00
tblLandUse	LandUseSquareFeet	316,000.00	289,223.00
tblLandUse	LandUseSquareFeet	116,000.00	187,739.00
tblLandUse	LotAcreage	1.62	0.00
tblLandUse	LotAcreage	3.02	0.00
tblOffRoadEquipment	HorsePower	172.00	7.00
tblOffRoadEquipment	HorsePower	172.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	48.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0

123 Independence Drive Project - San Mateo County, Summer

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tblProjectCharacteristics	CO2IntensityFactor	203.98	12
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblSolidWaste	SolidWasteGenerationRate	145.36	205.40
tblSolidWaste	SolidWasteGenerationRate	53.36	75.40
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	HaulingTripNumber	1,392.00	200.00
tblTripsAndVMT	HaulingTripNumber	4,658.00	3,700.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,500.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	134.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	23.00	8.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00
tblTripsAndVMT	WorkerTripNumber	536.00	120.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	107.00	50.00
tblVehicleTrips	WD_TR	5.44	3.63
tblVehicleTrips	WD_TR	7.32	5.39
tblWater	IndoorWaterUseRate	20,588,672.10	11,850,446.00
tblWater	IndoorWaterUseRate	7,557,866.97	4,309,571.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	OutdoorWaterUseRate	12,979,815.02	172,781.00
tblWater	OutdoorWaterUseRate	4,764,742.22	541,778.00
tblWater	OutdoorWaterUseRate	0.00	69,379.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.6948	50.5446	28.3997	0.1454	7.4445	1.3474	8.2364	1.0396	1.2455	2.0986	0.0000	15,538.1211	15,538.1211	3.0700	1.3911	16,029.4130
2024	3.5660	47.6324	46.2454	0.1438	4.6585	1.3152	5.9149	0.8533	1.2103	2.0151	0.0000	15,385.5780	15,385.5780	3.0923	1.3685	15,870.7000
2025	2.9772	26.0896	46.0362	0.0801	1.2102	1.1397	2.3500	0.3248	1.0489	1.3737	0.0000	7,909.3960	7,909.3960	2.1324	0.1415	8,004.8814
2026	20.9994	93.1756	149.3274	0.2509	1.6548	4.1637	5.8185	0.4435	4.0947	4.5382	0.0000	24,081.3309	24,081.3309	2.4103	0.1609	24,189.5282
2027	20.9864	93.1338	149.2098	0.2505	1.6549	4.1632	5.8181	0.4435	4.0943	4.5378	0.0000	24,033.9246	24,033.9246	2.4101	0.1570	24,140.9645
2028	20.9742	93.0991	149.1133	0.2500	1.6549	4.1628	5.8177	0.4435	4.0938	4.5374	0.0000	23,990.4301	23,990.4301	2.4103	0.1534	24,096.3932
Maximum	20.9994	93.1756	149.3274	0.2509	7.4445	4.1637	8.2364	1.0396	4.0947	4.5382	0.0000	24,081.3309	24,081.3309	3.0923	1.3911	24,189.5282

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	13.3753	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979	0.0000	64.3656	64.3656	0.0620	0.0000	65.9144
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	5.1632	3.8267	44.6035	0.0989	12.1187	0.0582	12.1769	3.2264	0.0541	3.2805		10,050.9190	10,050.9190	0.6167	0.4022	10,186.2019
Stationary	0.7615	2.1282	1.9416	3.6600e-003		0.1120	0.1120		0.1120	0.1120		389.5346	389.5346	0.0546		390.8999
Total	19.3000	6.3659	82.2407	0.1044	12.1187	0.3681	12.4868	3.2264	0.3640	3.5904	0.0000	10,504.8191	10,504.8191	0.7333	0.4022	10,643.0162

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	9/1/2023	12/1/2023	5	66	
2	Site Preparation	Site Preparation	12/1/2023	12/10/2023	5	6	
3	Grading	Grading	12/11/2023	2/11/2024	5	45	
4	Building Construction	Building Construction	9/1/2024	5/1/2028	5	956	
5	Paving	Paving	11/1/2024	1/1/2025	5	44	
6	Architectural Coating	Architectural Coating	7/1/2026	2/1/2028	5	415	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 105

Acres of Paving: 8.19

Residential Indoor: 965,848; Residential Outdoor: 321,949; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 32,189

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	2	8.00	158	0.38
Demolition	Skid Steer Loaders	4	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Plate Compactors	1	8.00	8	0.43
Grading	Graders	2	8.00	187	0.41

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Off-Highway Trucks	2	8.00	402	0.38
Grading	Plate Compactors	2	8.00	8	0.43
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Paving	Pavers	5	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Architectural Coating	Air Compressors	48	8.00	78	0.48
Architectural Coating	Forklifts	4	8.00	89	0.20
Architectural Coating	Other Construction Equipment	4	8.00	7	0.42
Architectural Coating	Other Construction Equipment	6	8.00	1	0.42

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	9	8.00	3.00	200.00	10.80	7.30	28.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	6.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	8.00	3.00	3,700.00	10.80	7.30	28.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	120.00	20.00	3,500.00	10.80	7.30	28.00	LD_Mix	HDT_Mix	HHDT
Paving	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	62	50.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5638	0.0000	4.5638	0.6910	0.0000	0.6910			0.0000			0.0000
Off-Road	1.0918	11.1630	18.7511	0.0280		0.4961	0.4961		0.4564	0.4564		2,706.8857	2,706.8857	0.8755		2,728.7722
Total	1.0918	11.1630	18.7511	0.0280	4.5638	0.4961	5.0599	0.6910	0.4564	1.1474		2,706.8857	2,706.8857	0.8755		2,728.7722

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.0600e-003	0.6224	0.2038	2.7000e-003	0.0739	4.3400e-003	0.0782	0.0202	4.1500e-003	0.0244		315.5810	315.5810	0.0318	0.0508	331.5283
Vendor	3.2300e-003	0.1366	0.0500	6.3000e-004	0.0203	7.2000e-004	0.0210	5.8300e-003	6.9000e-004	6.5300e-003		70.2441	70.2441	4.3200e-003	0.0104	73.4358
Worker	0.0174	9.9300e-003	0.1616	5.4000e-004	0.0657	3.0000e-004	0.0660	0.0174	2.8000e-004	0.0177		54.4085	54.4085	1.2300e-003	1.1900e-003	54.7941
Total	0.0297	0.7689	0.4154	3.8700e-003	0.1599	5.3600e-003	0.1652	0.0435	5.1200e-003	0.0486		440.2336	440.2336	0.0374	0.0624	459.7582

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0537	0.0000	2.0537	0.3110	0.0000	0.3110			0.0000			0.0000
Off-Road	1.0918	11.1630	18.7511	0.0280		0.4961	0.4961		0.4564	0.4564	0.0000	2,706.8857	2,706.8857	0.8755		2,728.7722
Total	1.0918	11.1630	18.7511	0.0280	2.0537	0.4961	2.5498	0.3110	0.4564	0.7673	0.0000	2,706.8857	2,706.8857	0.8755		2,728.7722

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.0600e-003	0.6224	0.2038	2.7000e-003	0.0739	4.3400e-003	0.0782	0.0202	4.1500e-003	0.0244		315.5810	315.5810	0.0318	0.0508	331.5283
Vendor	3.2300e-003	0.1366	0.0500	6.3000e-004	0.0203	7.2000e-004	0.0210	5.8300e-003	6.9000e-004	6.5300e-003		70.2441	70.2441	4.3200e-003	0.0104	73.4358
Worker	0.0174	9.9300e-003	0.1616	5.4000e-004	0.0657	3.0000e-004	0.0660	0.0174	2.8000e-004	0.0177		54.4085	54.4085	1.2300e-003	1.1900e-003	54.7941
Total	0.0297	0.7689	0.4154	3.8700e-003	0.1599	5.3600e-003	0.1652	0.0435	5.1200e-003	0.0486		440.2336	440.2336	0.0374	0.0624	459.7582

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6513	0.0000	2.6513	0.2863	0.0000	0.2863			0.0000			0.0000
Off-Road	0.9274	8.4722	5.1916	0.0203		0.2895	0.2895		0.2672	0.2672		1,955.2231	1,955.2231	0.6248		1,970.8427
Total	0.9274	8.4722	5.1916	0.0203	2.6513	0.2895	2.9408	0.2863	0.2672	0.5534		1,955.2231	1,955.2231	0.6248		1,970.8427

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	3.2300e-003	0.1366	0.0500	6.3000e-004	0.0203	7.2000e-004	0.0210	5.8300e-003	6.9000e-004	6.5300e-003		70.2441	70.2441	4.3200e-003	0.0104	73.4358
Worker	0.0131	7.4400e-003	0.1212	4.0000e-004	0.0493	2.3000e-004	0.0495	0.0131	2.1000e-004	0.0133		40.8064	40.8064	9.2000e-004	8.9000e-004	41.0956
Total	0.0163	0.1440	0.1711	1.0300e-003	0.0696	9.5000e-004	0.0705	0.0189	9.0000e-004	0.0198		111.0505	111.0505	5.2400e-003	0.0112	114.5314

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1931	0.0000	1.1931	0.1288	0.0000	0.1288			0.0000			0.0000
Off-Road	0.9274	8.4722	5.1916	0.0203		0.2895	0.2895		0.2672	0.2672	0.0000	1,955.2231	1,955.2231	0.6248		1,970.8427
Total	0.9274	8.4722	5.1916	0.0203	1.1931	0.2895	1.4826	0.1288	0.2672	0.3960	0.0000	1,955.2231	1,955.2231	0.6248		1,970.8427

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	3.2300e-003	0.1366	0.0500	6.3000e-004	0.0203	7.2000e-004	0.0210	5.8300e-003	6.9000e-004	6.5300e-003		70.2441	70.2441	4.3200e-003	0.0104	73.4358
Worker	0.0131	7.4400e-003	0.1212	4.0000e-004	0.0493	2.3000e-004	0.0495	0.0131	2.1000e-004	0.0133		40.8064	40.8064	9.2000e-004	8.9000e-004	41.0956
Total	0.0163	0.1440	0.1711	1.0300e-003	0.0696	9.5000e-004	0.0705	0.0189	9.0000e-004	0.0198		111.0505	111.0505	5.2400e-003	0.0112	114.5314

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5681	0.0000	2.5681	0.2814	0.0000	0.2814			0.0000			0.0000
Off-Road	3.4284	33.5113	22.6572	0.0710		1.2287	1.2287		1.1319	1.1319		6,850.7037	6,850.7037	2.2005		6,905.7165
Total	3.4284	33.5113	22.6572	0.0710	2.5681	1.2287	3.7968	0.2814	1.1319	1.4133		6,850.7037	6,850.7037	2.2005		6,905.7165

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	0.2457	16.8869	5.5309	0.0732	2.0039	0.1177	2.1216	0.5485	0.1126	0.6611		8,562.7648	8,562.7648	0.8639	1.3795	8,995.4665
Vendor	3.2300e-003	0.1366	0.0500	6.3000e-004	0.0203	7.2000e-004	0.0210	5.8300e-003	6.9000e-004	6.5300e-003		70.2441	70.2441	4.3200e-003	0.0104	73.4358
Worker	0.0174	9.9300e-003	0.1616	5.4000e-004	0.0657	3.0000e-004	0.0660	0.0174	2.8000e-004	0.0177		54.4085	54.4085	1.2300e-003	1.1900e-003	54.7941
Total	0.2664	17.0334	5.7425	0.0744	2.0899	0.1187	2.2086	0.5717	0.1136	0.6853		8,687.4174	8,687.4174	0.8695	1.3911	9,123.6964

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fugitive Dust					1.1557	0.0000	1.1557	0.1266	0.0000	0.1266			0.0000			0.0000
Off-Road	3.4284	33.5113	22.6572	0.0710		1.2287	1.2287		1.1319	1.1319	0.0000	6,850.7037	6,850.7037	2.2005		6,905.7165
Total	3.4284	33.5113	22.6572	0.0710	1.1557	1.2287	2.3843	0.1266	1.1319	1.2585	0.0000	6,850.7037	6,850.7037	2.2005		6,905.7165

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	0.2457	16.8869	5.5309	0.0732	2.0039	0.1177	2.1216	0.5485	0.1126	0.6611		8,562.7648	8,562.7648	0.8639	1.3795	8,995.4665
Vendor	3.2300e-003	0.1366	0.0500	6.3000e-004	0.0203	7.2000e-004	0.0210	5.8300e-003	6.9000e-004	6.5300e-003		70.2441	70.2441	4.3200e-003	0.0104	73.4358
Worker	0.0174	9.9300e-003	0.1616	5.4000e-004	0.0657	3.0000e-004	0.0660	0.0174	2.8000e-004	0.0177		54.4085	54.4085	1.2300e-003	1.1900e-003	54.7941
Total	0.2664	17.0334	5.7425	0.0744	2.0899	0.1187	2.2086	0.5717	0.1136	0.6853		8,687.4174	8,687.4174	0.8695	1.3911	9,123.6964

3.4 Grading - 2024

123 Independence Drive Project - San Mateo County, Summer

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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					2.5681	0.0000	2.5681	0.2814	0.0000	0.2814			0.0000			0.0000
Off-Road	3.3036	30.8611	22.1683	0.0710		1.1371	1.1371		1.0477	1.0477		6,848.8706	6,848.8706	2.1999		6,903.8686
Total	3.3036	30.8611	22.1683	0.0710	2.5681	1.1371	3.7052	0.2814	1.0477	1.3290		6,848.8706	6,848.8706	2.1999		6,903.8686

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	0.2429	16.6272	5.6908	0.0717	2.0044	0.1183	2.1227	0.5487	0.1132	0.6618		8,415.0816	8,415.0816	0.8868	1.3572	8,841.7024
Vendor	3.1200e-003	0.1352	0.0498	6.2000e-004	0.0203	7.3000e-004	0.0210	5.8400e-003	7.0000e-004	6.5300e-003		68.9946	68.9946	4.4300e-003	0.0102	72.1382
Worker	0.0165	8.9000e-003	0.1516	5.2000e-004	0.0657	2.9000e-004	0.0660	0.0174	2.7000e-004	0.0177		52.6312	52.6312	1.1100e-003	1.1100e-003	52.9908
Total	0.2625	16.7712	5.8922	0.0728	2.0904	0.1193	2.2097	0.5719	0.1141	0.6861		8,536.7074	8,536.7074	0.8923	1.3685	8,966.8314

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fugitive Dust					1.1557	0.0000	1.1557	0.1266	0.0000	0.1266			0.0000			0.0000
Off-Road	3.3036	30.8611	22.1683	0.0710		1.1371	1.1371		1.0477	1.0477	0.0000	6,848.8706	6,848.8706	2.1999		6,903.8686
Total	3.3036	30.8611	22.1683	0.0710	1.1557	1.1371	2.2927	0.1266	1.0477	1.1743	0.0000	6,848.8706	6,848.8706	2.1999		6,903.8686

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	0.2429	16.6272	5.6908	0.0717	2.0044	0.1183	2.1227	0.5487	0.1132	0.6618		8,415.0816	8,415.0816	0.8868	1.3572	8,841.7024
Vendor	3.1200e-003	0.1352	0.0498	6.2000e-004	0.0203	7.3000e-004	0.0210	5.8400e-003	7.0000e-004	6.5300e-003		68.9946	68.9946	4.4300e-003	0.0102	72.1382
Worker	0.0165	8.9000e-003	0.1516	5.2000e-004	0.0657	2.9000e-004	0.0660	0.0174	2.7000e-004	0.0177		52.6312	52.6312	1.1100e-003	1.1100e-003	52.9908
Total	0.2625	16.7712	5.8922	0.0728	2.0904	0.1193	2.2097	0.5719	0.1141	0.6861		8,536.7074	8,536.7074	0.8923	1.3685	8,966.8314

3.5 Building Construction - 2024

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	1.6008	15.0293	24.5009	0.0352		0.7411	0.7411		0.6818	0.6818		3,403.2545	3,403.2545	1.1007		3,430.7715
Total	1.6008	15.0293	24.5009	0.0352		0.7411	0.7411		0.6818	0.6818		3,403.2545	3,403.2545	1.1007		3,430.7715

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	0.0108	0.7404	0.2534	3.1900e-003	0.0893	5.2700e-003	0.0945	0.0244	5.0400e-003	0.0295		374.6962	374.6962	0.0395	0.0604	393.6922
Vendor	0.0208	0.9013	0.3321	4.1000e-003	0.1352	4.8600e-003	0.1400	0.0389	4.6400e-003	0.0435		459.9640	459.9640	0.0295	0.0679	480.9216
Worker	0.2469	0.1336	2.2742	7.8100e-003	0.9858	4.3400e-003	0.9901	0.2615	3.9900e-003	0.2655		789.4683	789.4683	0.0167	0.0167	794.8617
Total	0.2785	1.7752	2.8596	0.0151	1.2102	0.0145	1.2247	0.3248	0.0137	0.3385		1,624.1285	1,624.1285	0.0857	0.1450	1,669.4755

Mitigated Construction On-Site

123 Independence Drive Project - San Mateo County, Summer

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/11/2022 10:34 AM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Off-Road	1.6008	15.0293	24.5009	0.0352		0.7411	0.7411		0.6818	0.6818	0.0000	3,403.2545	3,403.2545	1.1007		3,430.7715
Total	1.6008	15.0293	24.5009	0.0352		0.7411	0.7411		0.6818	0.6818	0.0000	3,403.2545	3,403.2545	1.1007		3,430.7715

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	0.0108	0.7404	0.2534	3.1900e-003	0.0893	5.2700e-003	0.0945	0.0244	5.0400e-003	0.0295		374.6962	374.6962	0.0395	0.0604	393.6922
Vendor	0.0208	0.9013	0.3321	4.1000e-003	0.1352	4.8600e-003	0.1400	0.0389	4.6400e-003	0.0435		459.9640	459.9640	0.0295	0.0679	480.9216
Worker	0.2469	0.1336	2.2742	7.8100e-003	0.9858	4.3400e-003	0.9901	0.2615	3.9900e-003	0.2655		789.4683	789.4683	0.0167	0.0167	794.8617
Total	0.2785	1.7752	2.8596	0.0151	1.2102	0.0145	1.2247	0.3248	0.0137	0.3385		1,624.1285	1,624.1285	0.0857	0.1450	1,669.4755

3.5 Building Construction - 2025

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665

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	0.0107	0.7266	0.2597	3.1100e-003	0.0893	5.2600e-003	0.0945	0.0244	5.0300e-003	0.0295		367.0210	367.0210	0.0404	0.0593	385.6882
Vendor	0.0203	0.8907	0.3320	4.0100e-003	0.1352	4.8500e-003	0.1401	0.0389	4.6400e-003	0.0436		450.9131	450.9131	0.0301	0.0666	471.5050
Worker	0.2349	0.1210	2.1406	7.5500e-003	0.9858	4.1500e-003	0.9899	0.2615	3.8200e-003	0.2653		762.9821	762.9821	0.0151	0.0157	768.0393
Total	0.2659	1.7383	2.7324	0.0147	1.2102	0.0143	1.2245	0.3248	0.0135	0.3383		1,580.9162	1,580.9162	0.0856	0.1415	1,625.2326

Mitigated Construction On-Site

123 Independence Drive Project - San Mateo County, Summer

CalEEMod Version: CalEEMod.2020.4.0

Date: 3/11/2022 10:34 AM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Off-Road	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664

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	0.0107	0.7266	0.2597	3.1100e-003	0.0893	5.2600e-003	0.0945	0.0244	5.0300e-003	0.0295		367.0210	367.0210	0.0404	0.0593	385.6882
Vendor	0.0203	0.8907	0.3320	4.0100e-003	0.1352	4.8500e-003	0.1401	0.0389	4.6400e-003	0.0436		450.9131	450.9131	0.0301	0.0666	471.5050
Worker	0.2349	0.1210	2.1406	7.5500e-003	0.9858	4.1500e-003	0.9899	0.2615	3.8200e-003	0.2653		762.9821	762.9821	0.0151	0.0157	768.0393
Total	0.2659	1.7383	2.7324	0.0147	1.2102	0.0143	1.2245	0.3248	0.0135	0.3383		1,580.9162	1,580.9162	0.0856	0.1415	1,625.2326

3.5 Building Construction - 2026

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665

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	0.0105	0.7118	0.2662	3.0400e-003	0.0893	5.2200e-003	0.0945	0.0244	4.9900e-003	0.0294		359.4108	359.4108	0.0413	0.0581	377.7543
Vendor	0.0198	0.8791	0.3333	3.9300e-003	0.1352	4.8200e-003	0.1400	0.0389	4.6100e-003	0.0435		442.1352	442.1352	0.0308	0.0653	462.3715
Worker	0.2253	0.1111	2.0346	7.3300e-003	0.9858	3.9300e-003	0.9897	0.2615	3.6200e-003	0.2651		740.8996	740.8996	0.0138	0.0149	745.6906
Total	0.2556	1.7020	2.6341	0.0143	1.2103	0.0140	1.2243	0.3248	0.0132	0.3381		1,542.4456	1,542.4456	0.0860	0.1383	1,585.8164

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Off-Road	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664

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	0.0105	0.7118	0.2662	3.0400e-003	0.0893	5.2200e-003	0.0945	0.0244	4.9900e-003	0.0294		359.4108	359.4108	0.0413	0.0581	377.7543
Vendor	0.0198	0.8791	0.3333	3.9300e-003	0.1352	4.8200e-003	0.1400	0.0389	4.6100e-003	0.0435		442.1352	442.1352	0.0308	0.0653	462.3715
Worker	0.2253	0.1111	2.0346	7.3300e-003	0.9858	3.9300e-003	0.9897	0.2615	3.6200e-003	0.2651		740.8996	740.8996	0.0138	0.0149	745.6906
Total	0.2556	1.7020	2.6341	0.0143	1.2103	0.0140	1.2243	0.3248	0.0132	0.3381		1,542.4456	1,542.4456	0.0860	0.1383	1,585.8164

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665

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	0.0104	0.6964	0.2712	2.9500e-003	0.0893	5.1600e-003	0.0945	0.0245	4.9400e-003	0.0294		351.0691	351.0691	0.0421	0.0568	369.0459
Vendor	0.0194	0.8671	0.3343	3.8300e-003	0.1352	4.7900e-003	0.1400	0.0389	4.5800e-003	0.0435		432.6950	432.6950	0.0313	0.0640	452.5437
Worker	0.2166	0.1031	1.9471	7.1400e-003	0.9858	3.6900e-003	0.9895	0.2615	3.3900e-003	0.2649		721.6542	721.6542	0.0128	0.0143	726.2291
Total	0.2464	1.6665	2.5526	0.0139	1.2103	0.0136	1.2240	0.3248	0.0129	0.3377		1,505.4183	1,505.4183	0.0861	0.1351	1,547.8187

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Off-Road	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664

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	0.0104	0.6964	0.2712	2.9500e-003	0.0893	5.1600e-003	0.0945	0.0245	4.9400e-003	0.0294		351.0691	351.0691	0.0421	0.0568	369.0459
Vendor	0.0194	0.8671	0.3343	3.8300e-003	0.1352	4.7900e-003	0.1400	0.0389	4.5800e-003	0.0435		432.6950	432.6950	0.0313	0.0640	452.5437
Worker	0.2166	0.1031	1.9471	7.1400e-003	0.9858	3.6900e-003	0.9895	0.2615	3.3900e-003	0.2649		721.6542	721.6542	0.0128	0.0143	726.2291
Total	0.2464	1.6665	2.5526	0.0139	1.2103	0.0136	1.2240	0.3248	0.0129	0.3377		1,505.4183	1,505.4183	0.0861	0.1351	1,547.8187

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665

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	0.0102	0.6834	0.2764	2.8700e-003	0.0893	5.1200e-003	0.0945	0.0245	4.9000e-003	0.0294		342.9014	342.9014	0.0429	0.0555	360.5211
Vendor	0.0191	0.8573	0.3363	3.7500e-003	0.1353	4.7500e-003	0.1400	0.0389	4.5500e-003	0.0435		423.7405	423.7405	0.0319	0.0627	443.2168
Worker	0.2084	0.0964	1.8735	6.9700e-003	0.9858	3.4300e-003	0.9892	0.2615	3.1600e-003	0.2646		704.6187	704.6187	0.0118	0.0138	709.0141
Total	0.2377	1.6371	2.4863	0.0136	1.2104	0.0133	1.2237	0.3249	0.0126	0.3375		1,471.2605	1,471.2605	0.0866	0.1320	1,512.7519

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Off-Road	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664

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	0.0102	0.6834	0.2764	2.8700e-003	0.0893	5.1200e-003	0.0945	0.0245	4.9000e-003	0.0294		342.9014	342.9014	0.0429	0.0555	360.5211
Vendor	0.0191	0.8573	0.3363	3.7500e-003	0.1353	4.7500e-003	0.1400	0.0389	4.5500e-003	0.0435		423.7405	423.7405	0.0319	0.0627	443.2168
Worker	0.2084	0.0964	1.8735	6.9700e-003	0.9858	3.4300e-003	0.9892	0.2615	3.1600e-003	0.2646		704.6187	704.6187	0.0118	0.0138	709.0141
Total	0.2377	1.6371	2.4863	0.0136	1.2104	0.0133	1.2237	0.3249	0.0126	0.3375		1,471.2605	1,471.2605	0.0866	0.1320	1,512.7519

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.2285	11.7297	18.8848	0.0302		0.5596	0.5596		0.5148	0.5148		2,924.4223	2,924.4223	0.9458		2,948.0678
Paving	0.0840					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3125	11.7297	18.8848	0.0302		0.5596	0.5596		0.5148	0.5148		2,924.4223	2,924.4223	0.9458		2,948.0678

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Off-Road	1.2285	11.7297	18.8848	0.0302		0.5596	0.5596		0.5148	0.5148	0.0000	2,924.4223	2,924.4223	0.9458			2,948.0678
Paving	0.0840					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.3125	11.7297	18.8848	0.0302		0.5596	0.5596		0.5148	0.5148	0.0000	2,924.4223	2,924.4223	0.9458			2,948.0678

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Paving - 2025

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.1528	10.6232	18.8721	0.0302		0.5058	0.5058		0.4653	0.4653		2,923.3456	2,923.3456	0.9455		2,946.9823
Paving	0.0840					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2368	10.6232	18.8721	0.0302		0.5058	0.5058		0.4653	0.4653		2,923.3456	2,923.3456	0.9455		2,946.9823

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Off-Road	1.1528	10.6232	18.8721	0.0302		0.5058	0.5058		0.4653	0.4653	0.0000	2,923.3456	2,923.3456	0.9455			2,946.9823
Paving	0.0840					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.2368	10.6232	18.8721	0.0302		0.5058	0.5058		0.4653	0.4653	0.0000	2,923.3456	2,923.3456	0.9455			2,946.9823

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	11.4396	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087		18,714.5092	18,714.5092	1.2096		18,744.7481
Total	19.1704	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087		18,714.5092	18,714.5092	1.2096		18,744.7481

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	4.9500e-003	0.2198	0.0833	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1500e-003	0.0109		110.5338	110.5338	7.7000e-003	0.0163	115.5929
Worker	0.0939	0.0463	0.8478	3.0500e-003	0.4107	1.6400e-003	0.4124	0.1090	1.5100e-003	0.1105		308.7082	308.7082	5.7700e-003	6.2200e-003	310.7044
Total	0.0988	0.2661	0.9311	4.0300e-003	0.4445	2.8500e-003	0.4474	0.1187	2.6600e-003	0.1213		419.2420	419.2420	0.0135	0.0226	426.2973

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	11.4396	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087	0.0000	18,714.5091	18,714.5091	1.2096		18,744.7480
Total	19.1704	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087	0.0000	18,714.5091	18,714.5091	1.2096		18,744.7480

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	4.9500e-003	0.2198	0.0833	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1500e-003	0.0109		110.5338	110.5338	7.7000e-003	0.0163	115.5929
Worker	0.0939	0.0463	0.8478	3.0500e-003	0.4107	1.6400e-003	0.4124	0.1090	1.5100e-003	0.1105		308.7082	308.7082	5.7700e-003	6.2200e-003	310.7044
Total	0.0988	0.2661	0.9311	4.0300e-003	0.4445	2.8500e-003	0.4474	0.1187	2.6600e-003	0.1213		419.2420	419.2420	0.0135	0.0226	426.2973

123 Independence Drive Project - San Mateo County, Summer

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.7 Architectural Coating - 2027****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	7.7308					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	11.4396	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087		18,714.5092	18,714.5092	1.2096			18,744.7481
Total	19.1704	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087		18,714.5092	18,714.5092	1.2096			18,744.7481

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	4.8400e-003	0.2168	0.0836	9.6000e-004	0.0338	1.2000e-003	0.0350	9.7300e-003	1.1400e-003	0.0109		108.1738	108.1738	7.8200e-003	0.0160	113.1359
Worker	0.0903	0.0429	0.8113	2.9700e-003	0.4107	1.5400e-003	0.4123	0.1090	1.4100e-003	0.1104		300.6893	300.6893	5.3200e-003	5.9500e-003	302.5954
Total	0.0951	0.2597	0.8949	3.9300e-003	0.4446	2.7400e-003	0.4473	0.1187	2.5500e-003	0.1212		408.8630	408.8630	0.0131	0.0220	415.7314

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	11.4396	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087	0.0000	18,714.5091	18,714.5091	1.2096		18,744.7480
Total	19.1704	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087	0.0000	18,714.5091	18,714.5091	1.2096		18,744.7480

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	4.8400e-003	0.2168	0.0836	9.6000e-004	0.0338	1.2000e-003	0.0350	9.7300e-003	1.1400e-003	0.0109		108.1738	108.1738	7.8200e-003	0.0160	113.1359
Worker	0.0903	0.0429	0.8113	2.9700e-003	0.4107	1.5400e-003	0.4123	0.1090	1.4100e-003	0.1104		300.6893	300.6893	5.3200e-003	5.9500e-003	302.5954
Total	0.0951	0.2597	0.8949	3.9300e-003	0.4446	2.7400e-003	0.4473	0.1187	2.5500e-003	0.1212		408.8630	408.8630	0.0131	0.0220	415.7314

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	11.4396	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087		18,714.5092	18,714.5092	1.2096		18,744.7481
Total	19.1704	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087		18,714.5092	18,714.5092	1.2096		18,744.7481

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	4.7700e-003	0.2143	0.0841	9.4000e-004	0.0338	1.1900e-003	0.0350	9.7300e-003	1.1400e-003	0.0109		105.9351	105.9351	7.9700e-003	0.0157	110.8042
Worker	0.0868	0.0402	0.7806	2.9000e-003	0.4107	1.4300e-003	0.4122	0.1090	1.3200e-003	0.1103		293.5911	293.5911	4.9400e-003	5.7300e-003	295.4225
Total	0.0916	0.2545	0.8647	3.8400e-003	0.4446	2.6200e-003	0.4472	0.1187	2.4600e-003	0.1211		399.5262	399.5262	0.0129	0.0214	406.2267

123 Independence Drive Project - San Mateo County, Summer

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Date: 3/11/2022 10:34 AM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	7.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	11.4396	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087	0.0000	18,714.5091	18,714.5091	1.2096		18,744.7480
Total	19.1704	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087	0.0000	18,714.5091	18,714.5091	1.2096		18,744.7480

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	4.7700e-003	0.2143	0.0841	9.4000e-004	0.0338	1.1900e-003	0.0350	9.7300e-003	1.1400e-003	0.0109		105.9351	105.9351	7.9700e-003	0.0157	110.8042
Worker	0.0868	0.0402	0.7806	2.9000e-003	0.4107	1.4300e-003	0.4122	0.1090	1.3200e-003	0.1103		293.5911	293.5911	4.9400e-003	5.7300e-003	295.4225
Total	0.0916	0.2545	0.8647	3.8400e-003	0.4446	2.6200e-003	0.4472	0.1187	2.4600e-003	0.1211		399.5262	399.5262	0.0129	0.0214	406.2267

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.1632	3.8267	44.6035	0.0989	12.1187	0.0582	12.1769	3.2264	0.0541	3.2805		10,050.9190	10,050.919	0.6167	0.4022	10,186.2019
Unmitigated	5.1632	3.8267	44.6035	0.0989	12.1187	0.0582	12.1769	3.2264	0.0541	3.2805		10,050.9190	10,050.919	0.6167	0.4022	10,186.2019

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,147.08	1,551.56	1292.44	2,830,721	2,830,721
Condo/Townhouse	625.24	944.24	728.48	1,583,374	1,583,374
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,772.32	2,495.80	2,020.92	4,414,095	4,414,095

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	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
Apartments Mid Rise	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814
Condo/Townhouse	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814
Enclosed Parking with Elevator	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814
Other Asphalt Surfaces	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814
Other Non-Asphalt Surfaces	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	lb/day										lb/day					
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	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
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	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
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	13.3753	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979	0.0000	64.3656	64.3656	0.0620	0.0000	65.9144
Unmitigated	13.3753	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979	0.0000	64.3656	64.3656	0.0620	0.0000	65.9144

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.9011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.3970					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0773	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979		64.3656	64.3656	0.0620		65.9144
Total	13.3753	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979	0.0000	64.3656	64.3656	0.0620	0.0000	65.9144

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.3970					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0773	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979		64.3656	64.3656	0.0620		65.9144
Total	13.3753	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979	0.0000	64.3656	64.3656	0.0620	0.0000	65.9144

10.0 Stationary Equipment

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency	0.7615	2.1282	1.9416	3.6600e-003		0.1120	0.1120		0.1120	0.1120		389.5346	389.5346	0.0546		390.8999
Total	0.7615	2.1282	1.9416	3.6600e-003		0.1120	0.1120		0.1120	0.1120		389.5346	389.5346	0.0546		390.8999

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**123 Independence Drive Project
San Mateo County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	336.00	Space	0.00	128,880.00	0
Enclosed Parking with Elevator	180.00	Space	0.00	50,893.00	0
Other Asphalt Surfaces	61.24	1000sqft	1.41	61,239.00	0
Other Non-Asphalt Surfaces	295.47	1000sqft	6.78	295,469.00	0
Apartments Mid Rise	316.00	Dwelling Unit	8.32	289,223.00	904
Condo/Townhouse	116.00	Dwelling Unit	7.25	187,739.00	332

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2028
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	12	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 123 Independence Drive Project. Adjusted CO2 intensity per Pennensula Clean Energy report: 12 lb of CO2e per MWh.

Land Use - Project includes 316 Apartments and 116 Townhomes on a 8.15 acre site. 516 spaces in two parking garages (128880 SF and 50893 SF). 295469 SF of impervious area and 61239 of asphalt.

Construction Phase - Project would begin construction Sep 2023 and would be completed by Feb 2028.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Updated equipment per applicant. Other equipment includes stucco rigs (4) and paint sprayers (6).

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Updated trips per applicant. Haul average distance approx 28 miles per applicant.

Demolition - 103000 SF of existing office and 203000 SF of AC.

Grading - 5260 CY imported and 32000 CY exported.

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - Updated weekday trip generation rates per transportation analysis with 20% TDM Reduction.

Woodstoves - No wood or gas hearths/stoves.

Energy Use - Energy calculated in separate excel sheet.

Water And Wastewater - Updated per Water Budget Summary (PAE).

Solid Waste - Updated solid waste per applicant.

Construction Off-road Equipment Mitigation - Water twice daily for 55% reduction in PM.

Water Mitigation - Per applicant low-flow faucet and toilets used.

Stationary Sources - Emergency Generators and Fire Pumps - 300 KW, 464 BHP emergency generator per applicant. Tested for 1 hr/day and 50 hr/yr.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	35.00	45.00
tblConstructionPhase	NumDays	370.00	956.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	415.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1,001.10	0.00
tblEnergyUse	LightingElect	1.75	0.41
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	3,795.01	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	T24E	90.83	0.00
tblEnergyUse	T24E	42.95	0.00
tblEnergyUse	T24E	3.50	0.00
tblEnergyUse	T24NG	5,828.01	0.00
tblEnergyUse	T24NG	18,214.40	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	47.40	0.00
tblFireplaces	NumberGas	17.40	0.00
tblFireplaces	NumberNoFireplace	12.64	316.00
tblFireplaces	NumberNoFireplace	4.64	116.00
tblFireplaces	NumberWood	53.72	0.00
tblFireplaces	NumberWood	19.72	0.00
tblGrading	AcresOfGrading	135.00	105.00
tblGrading	AcresOfGrading	3.00	15.00
tblGrading	MaterialExported	0.00	32,000.00
tblGrading	MaterialImported	0.00	5,260.00
tblLandUse	LandUseSquareFeet	72,000.00	50,893.00
tblLandUse	LandUseSquareFeet	134,400.00	128,880.00
tblLandUse	LandUseSquareFeet	61,240.00	61,239.00
tblLandUse	LandUseSquareFeet	295,470.00	295,469.00
tblLandUse	LandUseSquareFeet	316,000.00	289,223.00
tblLandUse	LandUseSquareFeet	116,000.00	187,739.00
tblLandUse	LotAcreage	1.62	0.00
tblLandUse	LotAcreage	3.02	0.00
tblOffRoadEquipment	HorsePower	172.00	7.00
tblOffRoadEquipment	HorsePower	172.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	48.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	12
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblSolidWaste	SolidWasteGenerationRate	145.36	205.40
tblSolidWaste	SolidWasteGenerationRate	53.36	75.40
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	HaulingTripNumber	1,392.00	200.00
tblTripsAndVMT	HaulingTripNumber	4,658.00	3,700.00
tblTripsAndVMT	HaulingTripNumber	0.00	3,500.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	134.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	23.00	8.00
tblTripsAndVMT	WorkerTripNumber	8.00	6.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripNumber	536.00	120.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	107.00	50.00
tblVehicleTrips	WD_TR	5.44	3.63
tblVehicleTrips	WD_TR	7.32	5.39
tblWater	IndoorWaterUseRate	20,588,672.10	11,850,446.00
tblWater	IndoorWaterUseRate	7,557,866.97	4,309,571.00
tblWater	OutdoorWaterUseRate	12,979,815.02	172,781.00
tblWater	OutdoorWaterUseRate	4,764,742.22	541,778.00
tblWater	OutdoorWaterUseRate	0.00	69,379.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.6883	51.4727	28.4126	0.1454	7.4445	1.3477	8.2364	1.0396	1.2458	2.0989	0.0000	15,536.9979	15,536.9979	3.0695	1.3919	16,028.5225

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2024	3.5595	48.5490	46.2555	0.1438	4.6585	1.3152	5.9151	0.8533	1.2104	2.0153	0.0000	15,384.8082	15,384.8082	3.0917	1.3694	15,870.1743
2025	3.0009	26.2049	46.0497	0.0797	1.2102	1.1397	2.3500	0.3248	1.0489	1.3738	0.0000	7,868.3233	7,868.3233	2.1344	0.1440	7,964.5976
2026	21.0338	93.3101	149.3478	0.2504	1.6548	4.1637	5.8185	0.4435	4.0947	4.5382	0.0000	24,024.8855	24,024.8855	2.4130	0.1642	24,134.1350
2027	21.0211	93.2644	149.2323	0.2499	1.6549	4.1632	5.8181	0.4435	4.0943	4.5378	0.0000	23,979.0515	23,979.0515	2.4126	0.1602	24,087.0984
2028	21.0091	93.2266	149.1369	0.2495	1.6549	4.1628	5.8177	0.4435	4.0939	4.5374	0.0000	23,936.9274	23,936.9274	2.4127	0.1564	24,043.8599
Maximum	21.0338	93.3101	149.3478	0.2504	7.4445	4.1637	8.2364	1.0396	4.0947	4.5382	0.0000	24,024.8855	24,024.8855	3.0917	1.3919	24,134.1350

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	13.3753	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979	0.0000	64.3656	64.3656	0.0620	0.0000	65.9144
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	4.8566	4.4364	49.1302	0.0948	12.1187	0.0582	12.1769	3.2264	0.0541	3.2805		9,642.0799	9,642.0799	0.6841	0.4407	9,790.4951
Stationary	0.7615	2.1282	1.9416	3.6600e-003		0.1120	0.1120		0.1120	0.1120		389.5346	389.5346	0.0546		390.8999
Total	18.9934	6.9756	86.7674	0.1004	12.1187	0.3681	12.4868	3.2264	0.3640	3.5904	0.0000	10,095.9800	10,095.9800	0.8007	0.4407	10,247.3093

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	13.3753	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979	0.0000	64.3656	64.3656	0.0620	0.0000	65.9144
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	4.8566	4.4364	49.1302	0.0948	12.1187	0.0582	12.1769	3.2264	0.0541	3.2805		9,642.0799	9,642.0799	0.6841	0.4407	9,790.4951
Stationary	0.7615	2.1282	1.9416	3.6600e-003		0.1120	0.1120		0.1120	0.1120		389.5346	389.5346	0.0546		390.8999
Total	18.9934	6.9756	86.7674	0.1004	12.1187	0.3681	12.4868	3.2264	0.3640	3.5904	0.0000	10,095.9800	10,095.9800	0.8007	0.4407	10,247.3093

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	9/1/2023	12/1/2023	5	66	
2	Site Preparation	Site Preparation	12/1/2023	12/10/2023	5	6	
3	Grading	Grading	12/11/2023	2/11/2024	5	45	
4	Building Construction	Building Construction	9/1/2024	5/1/2028	5	956	
5	Paving	Paving	11/1/2024	1/1/2025	5	44	
6	Architectural Coating	Architectural Coating	7/1/2026	2/1/2028	5	415	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 105

Acres of Paving: 8.19

Residential Indoor: 965,848; Residential Outdoor: 321,949; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 32,189

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	2	8.00	158	0.38
Demolition	Skid Steer Loaders	4	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Plate Compactors	1	8.00	8	0.43
Grading	Graders	2	8.00	187	0.41
Grading	Off-Highway Trucks	2	8.00	402	0.38
Grading	Plate Compactors	2	8.00	8	0.43
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Paving	Pavers	5	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Architectural Coating	Air Compressors	48	8.00	78	0.48
Architectural Coating	Forklifts	4	8.00	89	0.20
Architectural Coating	Other Construction Equipment	4	8.00	7	0.42
Architectural Coating	Other Construction Equipment	6	8.00	1	0.42

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	9	8.00	3.00	200.00	10.80	7.30	28.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	6.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	8.00	3.00	3,700.00	10.80	7.30	28.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	120.00	20.00	3,500.00	10.80	7.30	28.00	LD_Mix	HDT_Mix	HHDT
Paving	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	62	50.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5638	0.0000	4.5638	0.6910	0.0000	0.6910			0.0000			0.0000
Off-Road	1.0918	11.1630	18.7511	0.0280		0.4961	0.4961		0.4564	0.4564		2,706.8857	2,706.8857	0.8755		2,728.7722
Total	1.0918	11.1630	18.7511	0.0280	4.5638	0.4961	5.0599	0.6910	0.4564	1.1474		2,706.8857	2,706.8857	0.8755		2,728.7722

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	8.7600e-003	0.6562	0.2043	2.7000e-003	0.0739	4.3500e-003	0.0782	0.0202	4.1600e-003	0.0244		315.6479	315.6479	0.0318	0.0509	331.6014
Vendor	3.1800e-003	0.1438	0.0515	6.3000e-004	0.0203	7.3000e-004	0.0210	5.8300e-003	7.0000e-004	6.5300e-003		70.2781	70.2781	4.3200e-003	0.0104	73.4748
Worker	0.0190	0.0122	0.1611	5.1000e-004	0.0657	3.0000e-004	0.0660	0.0174	2.8000e-004	0.0177		51.4363	51.4363	1.3900e-003	1.3700e-003	51.8790
Total	0.0309	0.8122	0.4169	3.8400e-003	0.1599	5.3800e-003	0.1652	0.0435	5.1400e-003	0.0486		437.3622	437.3622	0.0375	0.0626	456.9553

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0537	0.0000	2.0537	0.3110	0.0000	0.3110			0.0000			0.0000
Off-Road	1.0918	11.1630	18.7511	0.0280		0.4961	0.4961		0.4564	0.4564	0.0000	2,706.8857	2,706.8857	0.8755		2,728.7722
Total	1.0918	11.1630	18.7511	0.0280	2.0537	0.4961	2.5498	0.3110	0.4564	0.7673	0.0000	2,706.8857	2,706.8857	0.8755		2,728.7722

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	8.7600e-003	0.6562	0.2043	2.7000e-003	0.0739	4.3500e-003	0.0782	0.0202	4.1600e-003	0.0244		315.6479	315.6479	0.0318	0.0509	331.6014
Vendor	3.1800e-003	0.1438	0.0515	6.3000e-004	0.0203	7.3000e-004	0.0210	5.8300e-003	7.0000e-004	6.5300e-003		70.2781	70.2781	4.3200e-003	0.0104	73.4748
Worker	0.0190	0.0122	0.1611	5.1000e-004	0.0657	3.0000e-004	0.0660	0.0174	2.8000e-004	0.0177		51.4363	51.4363	1.3900e-003	1.3700e-003	51.8790
Total	0.0309	0.8122	0.4169	3.8400e-003	0.1599	5.3800e-003	0.1652	0.0435	5.1400e-003	0.0486		437.3622	437.3622	0.0375	0.0626	456.9553

3.3 Site Preparation - 2023

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					2.6513	0.0000	2.6513	0.2863	0.0000	0.2863			0.0000			0.0000
Off-Road	0.9274	8.4722	5.1916	0.0203		0.2895	0.2895		0.2672	0.2672		1,955.2231	1,955.2231	0.6248		1,970.8427
Total	0.9274	8.4722	5.1916	0.0203	2.6513	0.2895	2.9408	0.2863	0.2672	0.5534		1,955.2231	1,955.2231	0.6248		1,970.8427

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	3.1800e-003	0.1438	0.0515	6.3000e-004	0.0203	7.3000e-004	0.0210	5.8300e-003	7.0000e-004	6.5300e-003		70.2781	70.2781	4.3200e-003	0.0104	73.4748
Worker	0.0142	9.1600e-003	0.1209	3.8000e-004	0.0493	2.3000e-004	0.0495	0.0131	2.1000e-004	0.0133		38.5772	38.5772	1.0400e-003	1.0300e-003	38.9093
Total	0.0174	0.1530	0.1723	1.0100e-003	0.0696	9.6000e-004	0.0705	0.0189	9.1000e-004	0.0198		108.8553	108.8553	5.3600e-003	0.0114	112.3841

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fugitive Dust					1.1931	0.0000	1.1931	0.1288	0.0000	0.1288			0.0000			0.0000
Off-Road	0.9274	8.4722	5.1916	0.0203		0.2895	0.2895		0.2672	0.2672	0.0000	1,955.2231	1,955.2231	0.6248		1,970.8427
Total	0.9274	8.4722	5.1916	0.0203	1.1931	0.2895	1.4826	0.1288	0.2672	0.3960	0.0000	1,955.2231	1,955.2231	0.6248		1,970.8427

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	3.1800e-003	0.1438	0.0515	6.3000e-004	0.0203	7.3000e-004	0.0210	5.8300e-003	7.0000e-004	6.5300e-003		70.2781	70.2781	4.3200e-003	0.0104	73.4748
Worker	0.0142	9.1600e-003	0.1209	3.8000e-004	0.0493	2.3000e-004	0.0495	0.0131	2.1000e-004	0.0133		38.5772	38.5772	1.0400e-003	1.0300e-003	38.9093
Total	0.0174	0.1530	0.1723	1.0100e-003	0.0696	9.6000e-004	0.0705	0.0189	9.1000e-004	0.0198		108.8553	108.8553	5.3600e-003	0.0114	112.3841

3.4 Grading - 2023

Unmitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fugitive Dust					2.5681	0.0000	2.5681	0.2814	0.0000	0.2814			0.0000			0.0000
Off-Road	3.4284	33.5113	22.6572	0.0710		1.2287	1.2287		1.1319	1.1319		6,850.7037	6,850.7037	2.2005		6,905.7165
Total	3.4284	33.5113	22.6572	0.0710	2.5681	1.2287	3.7968	0.2814	1.1319	1.4133		6,850.7037	6,850.7037	2.2005		6,905.7165

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	0.2378	17.8055	5.5427	0.0733	2.0039	0.1180	2.1219	0.5485	0.1129	0.6613		8,564.5799	8,564.5799	0.8633	1.3802	8,997.4522
Vendor	3.1800e-003	0.1438	0.0515	6.3000e-004	0.0203	7.3000e-004	0.0210	5.8300e-003	7.0000e-004	6.5300e-003		70.2781	70.2781	4.3200e-003	0.0104	73.4748
Worker	0.0190	0.0122	0.1611	5.1000e-004	0.0657	3.0000e-004	0.0660	0.0174	2.8000e-004	0.0177		51.4363	51.4363	1.3900e-003	1.3700e-003	51.8790
Total	0.2599	17.9615	5.7554	0.0744	2.0899	0.1190	2.2089	0.5717	0.1139	0.6856		8,686.2942	8,686.2942	0.8690	1.3919	9,122.8060

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fugitive Dust					1.1557	0.0000	1.1557	0.1266	0.0000	0.1266			0.0000			0.0000
Off-Road	3.4284	33.5113	22.6572	0.0710		1.2287	1.2287		1.1319	1.1319	0.0000	6,850.7037	6,850.7037	2.2005		6,905.7165
Total	3.4284	33.5113	22.6572	0.0710	1.1557	1.2287	2.3843	0.1266	1.1319	1.2585	0.0000	6,850.7037	6,850.7037	2.2005		6,905.7165

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	0.2378	17.8055	5.5427	0.0733	2.0039	0.1180	2.1219	0.5485	0.1129	0.6613		8,564.5799	8,564.5799	0.8633	1.3802	8,997.4522
Vendor	3.1800e-003	0.1438	0.0515	6.3000e-004	0.0203	7.3000e-004	0.0210	5.8300e-003	7.0000e-004	6.5300e-003		70.2781	70.2781	4.3200e-003	0.0104	73.4748
Worker	0.0190	0.0122	0.1611	5.1000e-004	0.0657	3.0000e-004	0.0660	0.0174	2.8000e-004	0.0177		51.4363	51.4363	1.3900e-003	1.3700e-003	51.8790
Total	0.2599	17.9615	5.7554	0.0744	2.0899	0.1190	2.2089	0.5717	0.1139	0.6856		8,686.2942	8,686.2942	0.8690	1.3919	9,122.8060

3.4 Grading - 2024

Unmitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fugitive Dust					2.5681	0.0000	2.5681	0.2814	0.0000	0.2814			0.0000			0.0000
Off-Road	3.3036	30.8611	22.1683	0.0710		1.1371	1.1371		1.0477	1.0477		6,848.8706	6,848.8706	2.1999		6,903.8686
Total	3.3036	30.8611	22.1683	0.0710	2.5681	1.1371	3.7052	0.2814	1.0477	1.3290		6,848.8706	6,848.8706	2.1999		6,903.8686

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	0.2348	17.5346	5.7003	0.0717	2.0044	0.1185	2.1229	0.5487	0.1134	0.6620		8,417.1399	8,417.1399	0.8861	1.3579	8,843.9467
Vendor	3.0700e-003	0.1424	0.0513	6.2000e-004	0.0203	7.3000e-004	0.0210	5.8400e-003	7.0000e-004	6.5400e-003		69.0336	69.0336	4.4200e-003	0.0102	72.1822
Worker	0.0181	0.0110	0.1516	4.9000e-004	0.0657	2.9000e-004	0.0660	0.0174	2.7000e-004	0.0177		49.7641	49.7641	1.2600e-003	1.2800e-003	50.1769
Total	0.2559	17.6879	5.9031	0.0728	2.0904	0.1196	2.2099	0.5719	0.1144	0.6863		8,535.9376	8,535.9376	0.8918	1.3694	8,966.3058

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fugitive Dust					1.1557	0.0000	1.1557	0.1266	0.0000	0.1266			0.0000			0.0000
Off-Road	3.3036	30.8611	22.1683	0.0710		1.1371	1.1371		1.0477	1.0477	0.0000	6,848.8706	6,848.8706	2.1999		6,903.8686
Total	3.3036	30.8611	22.1683	0.0710	1.1557	1.1371	2.2927	0.1266	1.0477	1.1743	0.0000	6,848.8706	6,848.8706	2.1999		6,903.8686

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	0.2348	17.5346	5.7003	0.0717	2.0044	0.1185	2.1229	0.5487	0.1134	0.6620		8,417.1399	8,417.1399	0.8861	1.3579	8,843.9467
Vendor	3.0700e-003	0.1424	0.0513	6.2000e-004	0.0203	7.3000e-004	0.0210	5.8400e-003	7.0000e-004	6.5400e-003		69.0336	69.0336	4.4200e-003	0.0102	72.1822
Worker	0.0181	0.0110	0.1516	4.9000e-004	0.0657	2.9000e-004	0.0660	0.0174	2.7000e-004	0.0177		49.7641	49.7641	1.2600e-003	1.2800e-003	50.1769
Total	0.2559	17.6879	5.9031	0.0728	2.0904	0.1196	2.2099	0.5719	0.1144	0.6863		8,535.9376	8,535.9376	0.8918	1.3694	8,966.3058

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6008	15.0293	24.5009	0.0352		0.7411	0.7411		0.6818	0.6818		3,403.2545	3,403.2545	1.1007		3,430.7715
Total	1.6008	15.0293	24.5009	0.0352		0.7411	0.7411		0.6818	0.6818		3,403.2545	3,403.2545	1.1007		3,430.7715

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	0.0105	0.7808	0.2538	3.1900e-003	0.0893	5.2800e-003	0.0945	0.0244	5.0500e-003	0.0295		374.7878	374.7878	0.0395	0.0605	393.7922
Vendor	0.0205	0.9493	0.3420	4.1100e-003	0.1352	4.8900e-003	0.1401	0.0389	4.6700e-003	0.0436		460.2242	460.2242	0.0295	0.0680	481.2148
Worker	0.2710	0.1644	2.2740	7.3800e-003	0.9858	4.3400e-003	0.9901	0.2615	3.9900e-003	0.2655		746.4617	746.4617	0.0190	0.0192	752.6529
Total	0.3019	1.8944	2.8698	0.0147	1.2102	0.0145	1.2247	0.3248	0.0137	0.3385		1,581.4737	1,581.4737	0.0879	0.1476	1,627.6599

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6008	15.0293	24.5009	0.0352		0.7411	0.7411		0.6818	0.6818	0.0000	3,403.2545	3,403.2545	1.1007		3,430.7715
Total	1.6008	15.0293	24.5009	0.0352		0.7411	0.7411		0.6818	0.6818	0.0000	3,403.2545	3,403.2545	1.1007		3,430.7715

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	0.0105	0.7808	0.2538	3.1900e-003	0.0893	5.2800e-003	0.0945	0.0244	5.0500e-003	0.0295		374.7878	374.7878	0.0395	0.0605	393.7922
Vendor	0.0205	0.9493	0.3420	4.1100e-003	0.1352	4.8900e-003	0.1401	0.0389	4.6700e-003	0.0436		460.2242	460.2242	0.0295	0.0680	481.2148
Worker	0.2710	0.1644	2.2740	7.3800e-003	0.9858	4.3400e-003	0.9901	0.2615	3.9900e-003	0.2655		746.4617	746.4617	0.0190	0.0192	752.6529
Total	0.3019	1.8944	2.8698	0.0147	1.2102	0.0145	1.2247	0.3248	0.0137	0.3385		1,581.4737	1,581.4737	0.0879	0.1476	1,627.6599

3.5 Building Construction - 2025

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665

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	0.0103	0.7664	0.2600	3.1100e-003	0.0893	5.2700e-003	0.0945	0.0244	5.0400e-003	0.0295		367.1218	367.1218	0.0403	0.0593	385.7980
Vendor	0.0199	0.9385	0.3417	4.0200e-003	0.1352	4.8800e-003	0.1401	0.0389	4.6700e-003	0.0436		451.2021	451.2021	0.0301	0.0667	471.8270
Worker	0.2594	0.1489	2.1441	7.1400e-003	0.9858	4.1500e-003	0.9899	0.2615	3.8200e-003	0.2653		721.5195	721.5195	0.0173	0.0180	727.3239
Total	0.2896	1.8537	2.7459	0.0143	1.2102	0.0143	1.2246	0.3248	0.0135	0.3384		1,539.8435	1,539.8435	0.0876	0.1440	1,584.9489

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Off-Road	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664

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	0.0103	0.7664	0.2600	3.1100e-003	0.0893	5.2700e-003	0.0945	0.0244	5.0400e-003	0.0295		367.1218	367.1218	0.0403	0.0593	385.7980
Vendor	0.0199	0.9385	0.3417	4.0200e-003	0.1352	4.8800e-003	0.1401	0.0389	4.6700e-003	0.0436		451.2021	451.2021	0.0301	0.0667	471.8270
Worker	0.2594	0.1489	2.1441	7.1400e-003	0.9858	4.1500e-003	0.9899	0.2615	3.8200e-003	0.2653		721.5195	721.5195	0.0173	0.0180	727.3239
Total	0.2896	1.8537	2.7459	0.0143	1.2102	0.0143	1.2246	0.3248	0.0135	0.3384		1,539.8435	1,539.8435	0.0876	0.1440	1,584.9489

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665

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	0.0101	0.7509	0.2664	3.0400e-003	0.0893	5.2300e-003	0.0945	0.0244	5.0000e-003	0.0294		359.5193	359.5193	0.0413	0.0581	377.8721
Vendor	0.0193	0.9265	0.3428	3.9300e-003	0.1352	4.8500e-003	0.1401	0.0389	4.6400e-003	0.0436		442.4483	442.4483	0.0307	0.0654	462.7175
Worker	0.2502	0.1367	2.0405	6.9300e-003	0.9858	3.9300e-003	0.9897	0.2615	3.6200e-003	0.2651		700.7029	700.7029	0.0158	0.0171	706.2011
Total	0.2797	1.8140	2.6497	0.0139	1.2103	0.0140	1.2243	0.3248	0.0133	0.3381		1,502.6705	1,502.6705	0.0879	0.1407	1,546.7907

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Off-Road	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664

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	0.0101	0.7509	0.2664	3.0400e-003	0.0893	5.2300e-003	0.0945	0.0244	5.0000e-003	0.0294		359.5193	359.5193	0.0413	0.0581	377.8721
Vendor	0.0193	0.9265	0.3428	3.9300e-003	0.1352	4.8500e-003	0.1401	0.0389	4.6400e-003	0.0436		442.4483	442.4483	0.0307	0.0654	462.7175
Worker	0.2502	0.1367	2.0405	6.9300e-003	0.9858	3.9300e-003	0.9897	0.2615	3.6200e-003	0.2651		700.7029	700.7029	0.0158	0.0171	706.2011
Total	0.2797	1.8140	2.6497	0.0139	1.2103	0.0140	1.2243	0.3248	0.0133	0.3381		1,502.6705	1,502.6705	0.0879	0.1407	1,546.7907

3.5 Building Construction - 2027

Unmitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Off-Road	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013			3,432.6665
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013			3,432.6665

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.9800e-003	0.7347	0.2713	2.9500e-003	0.0893	5.1700e-003	0.0945	0.0245	4.9500e-003	0.0294		351.1847	351.1847	0.0420	0.0568	369.1714
Vendor	0.0189	0.9141	0.3436	3.8400e-003	0.1352	4.8100e-003	0.1400	0.0389	4.6000e-003	0.0435		433.0301	433.0301	0.0312	0.0641	452.9118
Worker	0.2418	0.1267	1.9547	6.7500e-003	0.9858	3.6900e-003	0.9895	0.2615	3.3900e-003	0.2649		682.5430	682.5430	0.0146	0.0164	687.7925
Total	0.2707	1.7755	2.5696	0.0135	1.2103	0.0137	1.2240	0.3248	0.0129	0.3378		1,466.7577	1,466.7577	0.0879	0.1373	1,509.8757

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Off-Road	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.9800e-003	0.7347	0.2713	2.9500e-003	0.0893	5.1700e-003	0.0945	0.0245	4.9500e-003	0.0294		351.1847	351.1847	0.0420	0.0568	369.1714
Vendor	0.0189	0.9141	0.3436	3.8400e-003	0.1352	4.8100e-003	0.1400	0.0389	4.6000e-003	0.0435		433.0301	433.0301	0.0312	0.0641	452.9118
Worker	0.2418	0.1267	1.9547	6.7500e-003	0.9858	3.6900e-003	0.9895	0.2615	3.3900e-003	0.2649		682.5430	682.5430	0.0146	0.0164	687.7925
Total	0.2707	1.7755	2.5696	0.0135	1.2103	0.0137	1.2240	0.3248	0.0129	0.3378		1,466.7577	1,466.7577	0.0879	0.1373	1,509.8757

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701		3,405.1342	3,405.1342	1.1013		3,432.6665

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.8500e-003	0.7211	0.2765	2.8700e-003	0.0893	5.1300e-003	0.0945	0.0245	4.9000e-003	0.0294		343.0226	343.0226	0.0428	0.0556	360.6526
Vendor	0.0186	0.9040	0.3455	3.7500e-003	0.1353	4.7800e-003	0.1400	0.0389	4.5700e-003	0.0435		424.0932	424.0932	0.0318	0.0628	443.6028
Worker	0.2337	0.1185	1.8821	6.5900e-003	0.9858	3.4300e-003	0.9892	0.2615	3.1600e-003	0.2646		666.4552	666.4552	0.0136	0.0158	671.4983
Total	0.2621	1.7437	2.5040	0.0132	1.2104	0.0133	1.2237	0.3249	0.0126	0.3375		1,433.5710	1,433.5710	0.0882	0.1342	1,475.7537

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Off-Road	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664
Total	1.4746	13.7280	24.4317	0.0352		0.6196	0.6196		0.5701	0.5701	0.0000	3,405.1342	3,405.1342	1.1013		3,432.6664

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.8500e-003	0.7211	0.2765	2.8700e-003	0.0893	5.1300e-003	0.0945	0.0245	4.9000e-003	0.0294		343.0226	343.0226	0.0428	0.0556	360.6526
Vendor	0.0186	0.9040	0.3455	3.7500e-003	0.1353	4.7800e-003	0.1400	0.0389	4.5700e-003	0.0435		424.0932	424.0932	0.0318	0.0628	443.6028
Worker	0.2337	0.1185	1.8821	6.5900e-003	0.9858	3.4300e-003	0.9892	0.2615	3.1600e-003	0.2646		666.4552	666.4552	0.0136	0.0158	671.4983
Total	0.2621	1.7437	2.5040	0.0132	1.2104	0.0133	1.2237	0.3249	0.0126	0.3375		1,433.5710	1,433.5710	0.0882	0.1342	1,475.7537

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.2285	11.7297	18.8848	0.0302		0.5596	0.5596		0.5148	0.5148		2,924.4223	2,924.4223	0.9458		2,948.0678
Paving	0.0840					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3125	11.7297	18.8848	0.0302		0.5596	0.5596		0.5148	0.5148		2,924.4223	2,924.4223	0.9458		2,948.0678

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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						
Off-Road	1.2285	11.7297	18.8848	0.0302		0.5596	0.5596		0.5148	0.5148	0.0000	2,924.4223	2,924.4223	0.9458			2,948.0678
Paving	0.0840					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.3125	11.7297	18.8848	0.0302		0.5596	0.5596		0.5148	0.5148	0.0000	2,924.4223	2,924.4223	0.9458			2,948.0678

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Paving - 2025

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.1528	10.6232	18.8721	0.0302		0.5058	0.5058		0.4653	0.4653		2,923.3456	2,923.3456	0.9455		2,946.9823
Paving	0.0840					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2368	10.6232	18.8721	0.0302		0.5058	0.5058		0.4653	0.4653		2,923.3456	2,923.3456	0.9455		2,946.9823

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Off-Road	1.1528	10.6232	18.8721	0.0302		0.5058	0.5058		0.4653	0.4653	0.0000	2,923.3456	2,923.3456	0.9455		2,946.9823
Paving	0.0840					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2368	10.6232	18.8721	0.0302		0.5058	0.5058		0.4653	0.4653	0.0000	2,923.3456	2,923.3456	0.9455		2,946.9823

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

3.7 Architectural Coating - 2026

Unmitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Archit. Coating	7.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	11.4396	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087		18,714.5092	18,714.5092	1.2096		18,744.7481
Total	19.1704	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087		18,714.5092	18,714.5092	1.2096		18,744.7481

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	4.8400e-003	0.2316	0.0857	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		110.6121	110.6121	7.6800e-003	0.0164	115.6794
Worker	0.1043	0.0570	0.8502	2.8900e-003	0.4107	1.6400e-003	0.4124	0.1090	1.5100e-003	0.1105		291.9595	291.9595	6.5900e-003	7.1300e-003	294.2505
Total	0.1091	0.2886	0.9359	3.8700e-003	0.4445	2.8500e-003	0.4474	0.1187	2.6700e-003	0.1214		402.5716	402.5716	0.0143	0.0235	409.9298

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Archit. Coating	7.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	11.4396	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087	0.0000	18,714.5091	18,714.5091	1.2096		18,744.7480
Total	19.1704	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087	0.0000	18,714.5091	18,714.5091	1.2096		18,744.7480

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	4.8400e-003	0.2316	0.0857	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		110.6121	110.6121	7.6800e-003	0.0164	115.6794
Worker	0.1043	0.0570	0.8502	2.8900e-003	0.4107	1.6400e-003	0.4124	0.1090	1.5100e-003	0.1105		291.9595	291.9595	6.5900e-003	7.1300e-003	294.2505
Total	0.1091	0.2886	0.9359	3.8700e-003	0.4445	2.8500e-003	0.4474	0.1187	2.6700e-003	0.1214		402.5716	402.5716	0.0143	0.0235	409.9298

3.7 Architectural Coating - 2027

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	7.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	11.4396	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087		18,714.5092	18,714.5092	1.2096		18,744.7481
Total	19.1704	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087		18,714.5092	18,714.5092	1.2096		18,744.7481

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	4.7200e-003	0.2285	0.0859	9.6000e-004	0.0338	1.2000e-003	0.0350	9.7300e-003	1.1500e-003	0.0109		108.2575	108.2575	7.8100e-003	0.0160	113.2280
Worker	0.1008	0.0528	0.8145	2.8100e-003	0.4107	1.5400e-003	0.4123	0.1090	1.4100e-003	0.1104		284.3929	284.3929	6.0900e-003	6.8300e-003	286.5802
Total	0.1055	0.2813	0.9004	3.7700e-003	0.4446	2.7400e-003	0.4473	0.1187	2.5600e-003	0.1212		392.6504	392.6504	0.0139	0.0229	399.8082

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Archit. Coating	7.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	11.4396	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087	0.0000	18,714.5091	18,714.5091	1.2096		18,744.7480
Total	19.1704	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087	0.0000	18,714.5091	18,714.5091	1.2096		18,744.7480

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	4.7200e-003	0.2285	0.0859	9.6000e-004	0.0338	1.2000e-003	0.0350	9.7300e-003	1.1500e-003	0.0109		108.2575	108.2575	7.8100e-003	0.0160	113.2280
Worker	0.1008	0.0528	0.8145	2.8100e-003	0.4107	1.5400e-003	0.4123	0.1090	1.4100e-003	0.1104		284.3929	284.3929	6.0900e-003	6.8300e-003	286.5802
Total	0.1055	0.2813	0.9004	3.7700e-003	0.4446	2.7400e-003	0.4473	0.1187	2.5600e-003	0.1212		392.6504	392.6504	0.0139	0.0229	399.8082

3.7 Architectural Coating - 2028

Unmitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Archit. Coating	7.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	11.4396	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087		18,714.5092	18,714.5092	1.2096		18,744.7481
Total	19.1704	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087		18,714.5092	18,714.5092	1.2096		18,744.7481

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	4.6400e-003	0.2260	0.0864	9.4000e-004	0.0338	1.1900e-003	0.0350	9.7300e-003	1.1400e-003	0.0109		106.0233	106.0233	7.9500e-003	0.0157	110.9007
Worker	0.0974	0.0494	0.7842	2.7500e-003	0.4107	1.4300e-003	0.4122	0.1090	1.3200e-003	0.1103		277.6897	277.6897	5.6600e-003	6.5800e-003	279.7910
Total	0.1020	0.2754	0.8706	3.6900e-003	0.4446	2.6200e-003	0.4472	0.1187	2.4600e-003	0.1211		383.7130	383.7130	0.0136	0.0223	390.6917

Mitigated Construction On-Site

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Archit. Coating	7.7308					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	11.4396	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087	0.0000	18,714.5091	18,714.5091	1.2096		18,744.7480
Total	19.1704	77.4795	121.3306	0.1974		3.5272	3.5272		3.5087	3.5087	0.0000	18,714.5091	18,714.5091	1.2096		18,744.7480

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	4.6400e-003	0.2260	0.0864	9.4000e-004	0.0338	1.1900e-003	0.0350	9.7300e-003	1.1400e-003	0.0109		106.0233	106.0233	7.9500e-003	0.0157	110.9007
Worker	0.0974	0.0494	0.7842	2.7500e-003	0.4107	1.4300e-003	0.4122	0.1090	1.3200e-003	0.1103		277.6897	277.6897	5.6600e-003	6.5800e-003	279.7910
Total	0.1020	0.2754	0.8706	3.6900e-003	0.4446	2.6200e-003	0.4472	0.1187	2.4600e-003	0.1211		383.7130	383.7130	0.0136	0.0223	390.6917

4.0 Operational Detail - Mobile

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	4.8566	4.4364	49.1302	0.0948	12.1187	0.0582	12.1769	3.2264	0.0541	3.2805		9,642.0799	9,642.0799	0.6841	0.4407	9,790.4951
Unmitigated	4.8566	4.4364	49.1302	0.0948	12.1187	0.0582	12.1769	3.2264	0.0541	3.2805		9,642.0799	9,642.0799	0.6841	0.4407	9,790.4951

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,147.08	1,551.56	1292.44	2,830,721	2,830,721
Condo/Townhouse	625.24	944.24	728.48	1,583,374	1,583,374
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,772.32	2,495.80	2,020.92	4,414,095	4,414,095

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	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
Apartments Mid Rise	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814
Condo/Townhouse	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814
Enclosed Parking with Elevator	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814
Other Asphalt Surfaces	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814
Other Non-Asphalt Surfaces	0.445042	0.076631	0.244215	0.152976	0.026509	0.006871	0.010884	0.001867	0.001384	0.000522	0.029860	0.000424	0.002814

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	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
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	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
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	13.3753	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979	0.0000	64.3656	64.3656	0.0620	0.0000	65.9144
Unmitigated	13.3753	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979	0.0000	64.3656	64.3656	0.0620	0.0000	65.9144

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.9011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.3970					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0773	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979		64.3656	64.3656	0.0620		65.9144
Total	13.3753	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979	0.0000	64.3656	64.3656	0.0620	0.0000	65.9144

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.3970					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0773	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979		64.3656	64.3656	0.0620		65.9144
Total	13.3753	0.4110	35.6957	1.8900e-003		0.1979	0.1979		0.1979	0.1979	0.0000	64.3656	64.3656	0.0620	0.0000	65.9144

10.0 Stationary Equipment

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency	0.7615	2.1282	1.9416	3.6600e-003		0.1120	0.1120		0.1120	0.1120		389.5346	389.5346	0.0546		390.8999
Total	0.7615	2.1282	1.9416	3.6600e-003		0.1120	0.1120		0.1120	0.1120		389.5346	389.5346	0.0546		390.8999

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied
123 Independence Drive Project (Existing Uses)
San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	13.00	1000sqft	0.30	13,000.00	0
Research & Development	12.34	1000sqft	0.28	12,335.00	0
Research & Development	13.82	1000sqft	0.32	13,822.00	0
Research & Development	25.53	1000sqft	0.59	25,528.00	0
Manufacturing	39.30	1000sqft	0.90	39,302.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2020
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 123 Independence Drive Project.

Land Use - Existing uses includes: 119 Independence Drive - Tree Care, 123-25 Independence Drive - Defense Contractor, 127 Independence Drive - Medical Device R&D, 130 Constitution Drive - Defense Contractor, and 1205 Chrysler Drive - Energy Company.

Construction Phase - Modeling operations only.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Modeling operations only.

Vehicle Trips - Updated weekday trip generation rates per transportation analysis.

Woodstoves - Default inputs assumed.

Energy Use - Default inputs assumed.

Water And Wastewater - Default inputs assumed.

Solid Waste - Default inputs assumed.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	12,340.00	12,335.00
tblLandUse	LandUseSquareFeet	13,820.00	13,822.00
tblLandUse	LandUseSquareFeet	25,530.00	25,528.00
tblLandUse	LandUseSquareFeet	39,300.00	39,302.00
tblVehicleTrips	WD_TR	3.93	4.75
tblVehicleTrips	WD_TR	11.26	11.08

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**2.0 Emissions Summary****2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4604	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8600e-003	1.8600e-003	0.0000	0.0000	1.9800e-003
Energy	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	232.8289	232.8289	0.0163	4.3700e-003	234.5408
Mobile	0.3536	0.4297	3.4907	7.1300e-003	0.7079	6.8500e-003	0.7147	0.1890	6.4100e-003	0.1955	0.0000	656.7215	656.7215	0.0441	0.0302	666.8265
Waste						0.0000	0.0000		0.0000	0.0000	10.8905	0.0000	10.8905	0.6436	0.0000	26.9807
Water						0.0000	0.0000		0.0000	0.0000	12.9744	20.4743	33.4487	1.3359	0.0319	76.3426
Total	0.8291	0.5671	3.6071	7.9500e-003	0.7079	0.0173	0.7252	0.1890	0.0169	0.2059	23.8648	910.0266	933.8914	2.0399	0.0665	1,004.6925

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4604	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8600e-003	1.8600e-003	0.0000	0.0000	1.9800e-003
Energy	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	232.8289	232.8289	0.0163	4.3700e-003	234.5408
Mobile	0.3536	0.4297	3.4907	7.1300e-003	0.7079	6.8500e-003	0.7147	0.1890	6.4100e-003	0.1955	0.0000	656.7215	656.7215	0.0441	0.0302	666.8265
Waste						0.0000	0.0000		0.0000	0.0000	10.8905	0.0000	10.8905	0.6436	0.0000	26.9807
Water						0.0000	0.0000		0.0000	0.0000	12.9744	20.4743	33.4487	1.3359	0.0319	76.3426
Total	0.8291	0.5671	3.6071	7.9500e-003	0.7079	0.0173	0.7252	0.1890	0.0169	0.2059	23.8648	910.0266	933.8914	2.0399	0.0665	1,004.6925

	ROG	NOx	CO	SO2	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	1/1/2022	1/28/2022	5	20	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.3536	0.4297	3.4907	7.1300e-003	0.7079	6.8500e-003	0.7147	0.1890	6.4100e-003	0.1955	0.0000	656.7215	656.7215	0.0441	0.0302	666.8265
Unmitigated	0.3536	0.4297	3.4907	7.1300e-003	0.7079	6.8500e-003	0.7147	0.1890	6.4100e-003	0.1955	0.0000	656.7215	656.7215	0.0441	0.0302	666.8265

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	186.68	252.31	200.04	577,946	577,946
Research & Development	144.04	24.70	14.43	271,867	271,867
Research & Development	136.73	23.45	13.70	258,064	258,064
Research & Development	153.13	26.26	15.34	289,016	289,016
Research & Development	282.87	48.51	28.34	533,905	533,905
Total	903.44	375.22	271.84	1,930,797	1,930,797

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
Manufacturing	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

123 Independence Drive Project (Existing Uses) - San Mateo County, Annual

CalEEMod Version: CalEEMod.2020.4.0

Date: 1/5/2022 11:05 AM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.515351	0.065995	0.214684	0.131392	0.023609	0.005314	0.010041	0.002374	0.001709	0.000690	0.026094	0.000447	0.002300
Research & Development	0.515351	0.065995	0.214684	0.131392	0.023609	0.005314	0.010041	0.002374	0.001709	0.000690	0.026094	0.000447	0.002300

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	83.2240	83.2240	0.0135	1.6300e-003	84.0469
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	83.2240	83.2240	0.0135	1.6300e-003	84.0469
Natural Gas Mitigated	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	149.6049	149.6049	2.8700e-003	2.7400e-003	150.4939
Natural Gas Unmitigated	0.0151	0.1374	0.1154	8.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	149.6049	149.6049	2.8700e-003	2.7400e-003	150.4939

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Manufacturing	1.05958e+006	5.7100e-003	0.0519	0.0436	3.1000e-004		3.9500e-003	3.9500e-003		3.9500e-003	3.9500e-003	0.0000	56.5433	56.5433	1.0800e-003	1.0400e-003	56.8793
Research & Development	332552	1.7900e-003	0.0163	0.0137	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.7462	17.7462	3.4000e-004	3.3000e-004	17.8517
Research & Development	350480	1.8900e-003	0.0172	0.0144	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.7030	18.7030	3.6000e-004	3.4000e-004	18.8141
Research & Development	372641	2.0100e-003	0.0183	0.0153	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	19.8856	19.8856	3.8000e-004	3.6000e-004	20.0037
Research & Development	688235	3.7100e-003	0.0337	0.0283	2.0000e-004		2.5600e-003	2.5600e-003		2.5600e-003	2.5600e-003	0.0000	36.7268	36.7268	7.0000e-004	6.7000e-004	36.9451
Total		0.0151	0.1374	0.1154	8.2000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.6049	149.6049	2.8600e-003	2.7400e-003	150.4939

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Manufacturing	1.05958e+006	5.7100e-003	0.0519	0.0436	3.1000e-004		3.9500e-003	3.9500e-003		3.9500e-003	3.9500e-003	0.0000	56.5433	56.5433	1.0800e-003	1.0400e-003	56.8793
Research & Development	332552	1.7900e-003	0.0163	0.0137	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.7462	17.7462	3.4000e-004	3.3000e-004	17.8517
Research & Development	350480	1.8900e-003	0.0172	0.0144	1.0000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	18.7030	18.7030	3.6000e-004	3.4000e-004	18.8141
Research & Development	372641	2.0100e-003	0.0183	0.0153	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	19.8856	19.8856	3.8000e-004	3.6000e-004	20.0037
Research & Development	688235	3.7100e-003	0.0337	0.0283	2.0000e-004		2.5600e-003	2.5600e-003		2.5600e-003	2.5600e-003	0.0000	36.7268	36.7268	7.0000e-004	6.7000e-004	36.9451
Total		0.0151	0.1374	0.1154	8.2000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.6049	149.6049	2.8600e-003	2.7400e-003	150.4939

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	339962	31.4546	5.0900e-003	6.2000e-004	31.7656
Research & Development	106698	9.8721	1.6000e-003	1.9000e-004	9.9697
Research & Development	112450	10.4043	1.6800e-003	2.0000e-004	10.5072
Research & Development	119560	11.0622	1.7900e-003	2.2000e-004	11.1716
Research & Development	220817	20.4308	3.3100e-003	4.0000e-004	20.6329
Total		83.2240	0.0135	1.6300e-003	84.0469

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	339962	31.4546	5.0900e-003	6.2000e-004	31.7656
Research & Development	106698	9.8721	1.6000e-003	1.9000e-004	9.9697
Research & Development	112450	10.4043	1.6800e-003	2.0000e-004	10.5072
Research & Development	119560	11.0622	1.7900e-003	2.2000e-004	11.1716
Research & Development	220817	20.4308	3.3100e-003	4.0000e-004	20.6329
Total		83.2240	0.0135	1.6300e-003	84.0469

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4604	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8600e-003	1.8600e-003	0.0000	0.0000	1.9800e-003
Unmitigated	0.4604	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8600e-003	1.8600e-003	0.0000	0.0000	1.9800e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4061					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8600e-003	1.8600e-003	0.0000	0.0000	1.9800e-003
Total	0.4604	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8600e-003	1.8600e-003	0.0000	0.0000	1.9800e-003

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	0.0542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4061					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8600e-003	1.8600e-003	0.0000	0.0000	1.9800e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	0.4604	1.0000e-005	9.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8600e-003	1.8600e-003	0.0000	0.0000	1.9800e-003
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7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	33.4487	1.3359	0.0319	76.3426
Unmitigated	33.4487	1.3359	0.0319	76.3426

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	9.08812 / 0	7.4332	0.2969	7.0800e-003	16.9653
Research & Development	31.8077 / 0	26.0155	1.0390	0.0248	59.3772
Total		33.4487	1.3359	0.0319	76.3426

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	9.08812 / 0	7.4332	0.2969	7.0800e-003	16.9653
Research & Development	31.8077 / 0	26.0155	1.0390	0.0248	59.3772
Total		33.4487	1.3359	0.0319	76.3426

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.8905	0.6436	0.0000	26.9807
Unmitigated	10.8905	0.6436	0.0000	26.9807

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	48.73	9.8918	0.5846	0.0000	24.5064
Research & Development	4.92	0.9987	0.0590	0.0000	2.4743
Total		10.8905	0.6436	0.0000	26.9807

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	48.73	9.8918	0.5846	0.0000	24.5064
Research & Development	4.92	0.9987	0.0590	0.0000	2.4743
Total		10.8905	0.6436	0.0000	26.9807

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied
123 Independence Drive Project (Existing Uses)
San Mateo County, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	13.00	1000sqft	0.30	13,000.00	0
Research & Development	12.34	1000sqft	0.28	12,335.00	0
Research & Development	13.82	1000sqft	0.32	13,822.00	0
Research & Development	25.53	1000sqft	0.59	25,528.00	0
Manufacturing	39.30	1000sqft	0.90	39,302.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2020
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 123 Independence Drive Project.

Land Use - Existing uses includes: 119 Independence Drive - Tree Care, 123-25 Independence Drive - Defense Contractor, 127 Independence Drive - Medical Device R&D, 130 Constitution Drive - Defense Contractor, and 1205 Chrysler Drive - Energy Company.

Construction Phase - Modeling operations only.

Off-road Equipment - Updated equipment per applicant. Other equipment includes stucco rigs (4) and paint sprayers (6).

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Modeling operations only.

Trips and VMT - Updated trips per applicant. Haul distance approx 25 miles per applicant.

Demolition - 103000 SF of existing office and 203000 SF of AC.

Grading - 5260 CY imported and 32000 CY exported.

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - Updated weekday trip generation rates per transportation analysis.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	12,340.00	12,335.00
tblLandUse	LandUseSquareFeet	13,820.00	13,822.00
tblLandUse	LandUseSquareFeet	25,530.00	25,528.00
tblLandUse	LandUseSquareFeet	39,300.00	39,302.00
tblVehicleTrips	WD_TR	3.93	4.75
tblVehicleTrips	WD_TR	11.26	11.08

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.5234	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243
Energy	0.0828	0.7530	0.6325	4.5200e-003		0.0572	0.0572		0.0572	0.0572		903.6227	903.6227	0.0173	0.0166	908.9925
Mobile	2.7122	2.8330	24.8589	0.0537	5.3229	0.0495	5.3724	1.4167	0.0463	1.4630		5,453.5318	5,453.5318	0.3283	0.2260	5,529.0912
Total	5.3185	3.5861	25.5021	0.0582	5.3229	0.1067	5.4296	1.4167	0.1035	1.5203		6,357.1773	6,357.1773	0.3457	0.2426	6,438.1080

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.5234	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243
Energy	0.0828	0.7530	0.6325	4.5200e-003		0.0572	0.0572		0.0572	0.0572		903.6227	903.6227	0.0173	0.0166	908.9925
Mobile	2.7122	2.8330	24.8589	0.0537	5.3229	0.0495	5.3724	1.4167	0.0463	1.4630		5,453.5318	5,453.5318	0.3283	0.2260	5,529.0912
Total	5.3185	3.5861	25.5021	0.0582	5.3229	0.1067	5.4296	1.4167	0.1035	1.5203		6,357.1773	6,357.1773	0.3457	0.2426	6,438.1080

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7122	2.8330	24.8589	0.0537	5.3229	0.0495	5.3724	1.4167	0.0463	1.4630		5,453.5318	5,453.5318	0.3283	0.2260	5,529.0912
Unmitigated	2.7122	2.8330	24.8589	0.0537	5.3229	0.0495	5.3724	1.4167	0.0463	1.4630		5,453.5318	5,453.5318	0.3283	0.2260	5,529.0912

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	186.68	252.31	200.04	577,946	577,946
Research & Development	144.04	24.70	14.43	271,867	271,867
Research & Development	136.73	23.45	13.70	258,064	258,064
Research & Development	153.13	26.26	15.34	289,016	289,016
Research & Development	282.87	48.51	28.34	533,905	533,905
Total	903.44	375.22	271.84	1,930,797	1,930,797

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
Manufacturing	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.515351	0.065995	0.214684	0.131392	0.023609	0.005314	0.010041	0.002374	0.001709	0.000690	0.026094	0.000447	0.002300
Research & Development	0.515351	0.065995	0.214684	0.131392	0.023609	0.005314	0.010041	0.002374	0.001709	0.000690	0.026094	0.000447	0.002300

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
NaturalGas Mitigated	0.0828	0.7530	0.6325	4.5200e-003		0.0572	0.0572		0.0572	0.0572		903.6227	903.6227	0.0173	0.0166	908.9925
NaturalGas Unmitigated	0.0828	0.7530	0.6325	4.5200e-003		0.0572	0.0572		0.0572	0.0572		903.6227	903.6227	0.0173	0.0166	908.9925

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					
Manufacturing	2902.96	0.0313	0.2846	0.2391	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.5252	341.5252	6.5500e-003	6.2600e-003	343.5547
Research & Development	1020.93	0.0110	0.1001	0.0841	6.0000e-004		7.6100e-003	7.6100e-003		7.6100e-003	7.6100e-003		120.1100	120.1100	2.3000e-003	2.2000e-003	120.8237
Research & Development	1885.58	0.0203	0.1849	0.1553	1.1100e-003		0.0141	0.0141		0.0141	0.0141		221.8324	221.8324	4.2500e-003	4.0700e-003	223.1506
Research & Development	911.1	9.8300e-003	0.0893	0.0750	5.4000e-004		6.7900e-003	6.7900e-003		6.7900e-003	6.7900e-003		107.1883	107.1883	2.0500e-003	1.9700e-003	107.8252
Research & Development	960.219	0.0104	0.0941	0.0791	5.6000e-004		7.1500e-003	7.1500e-003		7.1500e-003	7.1500e-003		112.9670	112.9670	2.1700e-003	2.0700e-003	113.6383
Total		0.0828	0.7530	0.6325	4.5200e-003		0.0572	0.0572		0.0572	0.0572		903.6227	903.6227	0.0173	0.0166	908.9925

Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	2.90296	0.0313	0.2846	0.2391	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.5252	341.5252	6.5500e-003	6.2600e-003	343.5547
Research & Development	1.88558	0.0203	0.1849	0.1553	1.1100e-003		0.0141	0.0141		0.0141	0.0141		221.8324	221.8324	4.2500e-003	4.0700e-003	223.1506
Research & Development	0.9111	9.8300e-003	0.0893	0.0750	5.4000e-004		6.7900e-003	6.7900e-003		6.7900e-003	6.7900e-003		107.1883	107.1883	2.0500e-003	1.9700e-003	107.8252
Research & Development	0.960219	0.0104	0.0941	0.0791	5.6000e-004		7.1500e-003	7.1500e-003		7.1500e-003	7.1500e-003		112.9670	112.9670	2.1700e-003	2.0700e-003	113.6383
Research & Development	1.02093	0.0110	0.1001	0.0841	6.0000e-004		7.6100e-003	7.6100e-003		7.6100e-003	7.6100e-003		120.1100	120.1100	2.3000e-003	2.2000e-003	120.8237
Total		0.0828	0.7530	0.6325	4.5200e-003		0.0572	0.0572		0.0572	0.0572		903.6227	903.6227	0.0173	0.0166	908.9925

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	2.5234	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243
Unmitigated	2.5234	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243

6.2 Area by SubCategory

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.2971					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2253					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0100e-003	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243
Total	2.5234	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2971					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2253					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0100e-003	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243
Total	2.5234	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied
123 Independence Drive Project (Existing Uses)
San Mateo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	13.00	1000sqft	0.30	13,000.00	0
Research & Development	12.34	1000sqft	0.28	12,335.00	0
Research & Development	13.82	1000sqft	0.32	13,822.00	0
Research & Development	25.53	1000sqft	0.59	25,528.00	0
Manufacturing	39.30	1000sqft	0.90	39,302.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2020
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 123 Independence Drive Project.

Land Use - Existing uses includes: 119 Independence Drive - Tree Care, 123-25 Independence Drive - Defense Contractor, 127 Independence Drive - Medical Device R&D, 130 Constitution Drive - Defense Contractor, and 1205 Chrysler Drive - Energy Company.

Construction Phase - Modeling operations only.

Off-road Equipment - Updated equipment per applicant. Other equipment includes stucco rigs (4) and paint sprayers (6).

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Modeling operations only.

Trips and VMT - Updated trips per applicant. Haul distance approx 25 miles per applicant.

Demolition - 103000 SF of existing office and 203000 SF of AC.

Grading - 5260 CY imported and 32000 CY exported.

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - Updated weekday trip generation rates per transportation analysis.

Woodstoves - No wood or gas hearths/stoves.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	12,340.00	12,335.00
tblLandUse	LandUseSquareFeet	13,820.00	13,822.00
tblLandUse	LandUseSquareFeet	25,530.00	25,528.00
tblLandUse	LandUseSquareFeet	39,300.00	39,302.00
tblVehicleTrips	WD_TR	3.93	4.75
tblVehicleTrips	WD_TR	11.26	11.08

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.5234	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243
Energy	0.0828	0.7530	0.6325	4.5200e-003		0.0572	0.0572		0.0572	0.0572		903.6227	903.6227	0.0173	0.0166	908.9925
Mobile	2.5976	3.2711	26.6614	0.0513	5.3229	0.0495	5.3724	1.4167	0.0463	1.4630		5,212.9768	5,212.9768	0.3691	0.2499	5,296.6823
Total	5.2038	4.0242	27.3046	0.0559	5.3229	0.1068	5.4297	1.4167	0.1036	1.5203		6,116.6223	6,116.6223	0.3865	0.2665	6,205.6991

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.5234	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243
Energy	0.0828	0.7530	0.6325	4.5200e-003		0.0572	0.0572		0.0572	0.0572		903.6227	903.6227	0.0173	0.0166	908.9925
Mobile	2.5976	3.2711	26.6614	0.0513	5.3229	0.0495	5.3724	1.4167	0.0463	1.4630		5,212.9768	5,212.9768	0.3691	0.2499	5,296.6823
Total	5.2038	4.0242	27.3046	0.0559	5.3229	0.1068	5.4297	1.4167	0.1036	1.5203		6,116.6223	6,116.6223	0.3865	0.2665	6,205.6991

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.5976	3.2711	26.6614	0.0513	5.3229	0.0495	5.3724	1.4167	0.0463	1.4630		5,212.9768	5,212.9768	0.3691	0.2499	5,296.6823
Unmitigated	2.5976	3.2711	26.6614	0.0513	5.3229	0.0495	5.3724	1.4167	0.0463	1.4630		5,212.9768	5,212.9768	0.3691	0.2499	5,296.6823

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	186.68	252.31	200.04	577,946	577,946
Research & Development	144.04	24.70	14.43	271,867	271,867
Research & Development	136.73	23.45	13.70	258,064	258,064
Research & Development	153.13	26.26	15.34	289,016	289,016
Research & Development	282.87	48.51	28.34	533,905	533,905
Total	903.44	375.22	271.84	1,930,797	1,930,797

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
Manufacturing	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Manufacturing	0.515351	0.065995	0.214684	0.131392	0.023609	0.005314	0.010041	0.002374	0.001709	0.000690	0.026094	0.000447	0.002300
Research & Development	0.515351	0.065995	0.214684	0.131392	0.023609	0.005314	0.010041	0.002374	0.001709	0.000690	0.026094	0.000447	0.002300

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
NaturalGas Mitigated	0.0828	0.7530	0.6325	4.5200e-003		0.0572	0.0572		0.0572	0.0572		903.6227	903.6227	0.0173	0.0166	908.9925
NaturalGas Unmitigated	0.0828	0.7530	0.6325	4.5200e-003		0.0572	0.0572		0.0572	0.0572		903.6227	903.6227	0.0173	0.0166	908.9925

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	lb/day										lb/day					
Manufacturing	2902.96	0.0313	0.2846	0.2391	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.5252	341.5252	6.5500e-003	6.2600e-003	343.5547
Research & Development	1020.93	0.0110	0.1001	0.0841	6.0000e-004		7.6100e-003	7.6100e-003		7.6100e-003	7.6100e-003		120.1100	120.1100	2.3000e-003	2.2000e-003	120.8237
Research & Development	1885.58	0.0203	0.1849	0.1553	1.1100e-003		0.0141	0.0141		0.0141	0.0141		221.8324	221.8324	4.2500e-003	4.0700e-003	223.1506
Research & Development	911.1	9.8300e-003	0.0893	0.0750	5.4000e-004		6.7900e-003	6.7900e-003		6.7900e-003	6.7900e-003		107.1883	107.1883	2.0500e-003	1.9700e-003	107.8252
Research & Development	960.219	0.0104	0.0941	0.0791	5.6000e-004		7.1500e-003	7.1500e-003		7.1500e-003	7.1500e-003		112.9670	112.9670	2.1700e-003	2.0700e-003	113.6383
Total		0.0828	0.7530	0.6325	4.5200e-003		0.0572	0.0572		0.0572	0.0572		903.6227	903.6227	0.0173	0.0166	908.9925

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Manufacturing	2.90296	0.0313	0.2846	0.2391	1.7100e-003		0.0216	0.0216		0.0216	0.0216		341.5252	341.5252	6.5500e-003	6.2600e-003	343.5547
Research & Development	1.02093	0.0110	0.1001	0.0841	6.0000e-004		7.6100e-003	7.6100e-003		7.6100e-003	7.6100e-003		120.1100	120.1100	2.3000e-003	2.2000e-003	120.8237
Research & Development	1.88558	0.0203	0.1849	0.1553	1.1100e-003		0.0141	0.0141		0.0141	0.0141		221.8324	221.8324	4.2500e-003	4.0700e-003	223.1506
Research & Development	0.9111	9.8300e-003	0.0893	0.0750	5.4000e-004		6.7900e-003	6.7900e-003		6.7900e-003	6.7900e-003		107.1883	107.1883	2.0500e-003	1.9700e-003	107.8252
Research & Development	0.960219	0.0104	0.0941	0.0791	5.6000e-004		7.1500e-003	7.1500e-003		7.1500e-003	7.1500e-003		112.9670	112.9670	2.1700e-003	2.0700e-003	113.6383
Total		0.0828	0.7530	0.6325	4.5200e-003		0.0572	0.0572		0.0572	0.0572		903.6227	903.6227	0.0173	0.0166	908.9925

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	2.5234	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243
Unmitigated	2.5234	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.2971					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2253					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0100e-003	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243
Total	2.5234	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2971					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2253					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0100e-003	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243
Total	2.5234	1.0000e-004	0.0107	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0228	0.0228	6.0000e-005		0.0243

Average Annual Daily Criteria Pollutant Emissions

123 Independence Drive

Unmitigated Construction		tons			
Year	ROG	Nox	PM10 exh	PM2.5 exh	
2023	0.0675	0.8044	0.0275	0.0254	
2024	0.1633	1.7103	0.0638	0.0588	
2025	0.2276	2.0333	0.083	0.0764	
2026	1.4967	7.1551	0.3157	0.3079	
2027	2.7387	12.1648	0.5433	0.5343	
2028	0.2855	1.5189	0.066	0.0637	
Total	4.9793	25.3868	1.0993	1.0665	

Unmitigated Construction		average lbs/day			
Year	ROG	Nox	PM10 exh	PM2.5 exh	
Total		9.3	47.4	2.1	2.0

Construction Duration: 1072 days Total Duration

9/1/2023	2/11/2024	116
9/1/2024	5/1/2028	956
Total		1072