

McMillan Project - San Luis Obispo County, Annual

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

**McMillan Project
San Luis Obispo County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	8.27	1000sqft	0.19	8,270.00	0
Other Asphalt Surfaces	3.95	1000sqft	0.09	3,954.00	0
Parking Lot	13.00	Space	0.12	5,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2023
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 -

Land Use -

Construction Phase - !0 month construction duration
6 days per week

Grading - site preparation - 2 passes over the 0.4 acres
grading - 10 passes over the 0.4 acres

Off-road Equipment - 8 hours/day

Off-road Equipment - 8 hours/day

Off-road Equipment -

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McMillan Project - San Luis Obispo County, Annual

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

Trips and VMT - Modified based project specific maximums

Vehicle Trips - Modified to reflect project maximum

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	4,135.00	4,136.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	12,405.00	12,408.00
tblArchitecturalCoating	ConstArea_Parking	549.00	758.00
tblAreaCoating	Area_Nonresidential_Exterior	4135	4136
tblAreaCoating	Area_Nonresidential_Interior	12405	12408
tblAreaCoating	Area_Parking	549	758
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	2.00	40.00
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	40.00	4.00
tblGrading	AcresOfGrading	2.50	0.80
tblGrading	MaterialImported	0.00	2,700.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

McMillan Project - San Luis Obispo County, Annual

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

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	7.00	18.00
tblTripsAndVMT	WorkerTripNumber	1.00	2.00
tblVehicleTrips	ST_TR	1.74	5.25
tblVehicleTrips	SU_TR	1.74	5.25
tblVehicleTrips	WD_TR	1.74	5.25

2.0 Emissions Summary

McMillan Project - San Luis Obispo County, Annual

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	0.6693	0.6693
2	4-1-2023	6-30-2023	0.6170	0.6170
3	7-1-2023	9-30-2023	0.6238	0.6238
		Highest	0.6693	0.6693

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	0.0428	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.8000e-004
Energy	1.5000e-004	1.3900e-003	1.1700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	4.3646	4.3646	4.9000e-004	8.0000e-005	4.4018
Mobile	0.0290	0.0460	0.2763	5.4000e-004	0.0536	5.3000e-004	0.0542	0.0143	5.0000e-004	0.0148	0.0000	49.4705	49.4705	3.2600e-003	2.5800e-003	50.3208
Waste						0.0000	0.0000		0.0000	0.0000	1.5772	0.0000	1.5772	0.0932	0.0000	3.9075
Water						0.0000	0.0000		0.0000	0.0000	0.6067	0.9575	1.5642	0.0625	1.4900e-003	3.5701
Total	0.0720	0.0474	0.2779	5.5000e-004	0.0536	6.4000e-004	0.0543	0.0143	6.1000e-004	0.0150	2.1840	54.7934	56.9774	0.1594	4.1500e-003	62.2011

McMillan Project - San Luis Obispo County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0428	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.8000e-004
Energy	1.5000e-004	1.3900e-003	1.1700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	4.3646	4.3646	4.9000e-004	8.0000e-005	4.4018
Mobile	0.0290	0.0460	0.2763	5.4000e-004	0.0536	5.3000e-004	0.0542	0.0143	5.0000e-004	0.0148	0.0000	49.4705	49.4705	3.2600e-003	2.5800e-003	50.3208
Waste						0.0000	0.0000		0.0000	0.0000	1.5772	0.0000	1.5772	0.0932	0.0000	3.9075
Water						0.0000	0.0000		0.0000	0.0000	0.6067	0.9575	1.5642	0.0625	1.4900e-003	3.5701
Total	0.0720	0.0474	0.2779	5.5000e-004	0.0536	6.4000e-004	0.0543	0.0143	6.1000e-004	0.0150	2.1840	54.7934	56.9774	0.1594	4.1500e-003	62.2011

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	1/6/2023	6	5	
2	Grading	Grading	1/7/2023	2/22/2023	6	40	
3	Building Construction	Building Construction	2/23/2023	10/13/2023	6	200	

McMillan Project - San Luis Obispo County, Annual

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

4	Paving	Paving	10/14/2023	10/25/2023	6	10
5	Architectural Coating	Architectural Coating	10/26/2023	10/31/2023	6	5

Acres of Grading (Site Preparation Phase): 0.8

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.21

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,408; Non-Residential Outdoor: 4,136; Striped Parking Area: 758 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Building Construction	Off-Highway Trucks	1	8.00	402	0.38
Grading	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Building Construction	Generator Sets	1	8.00	84	0.74

McMillan Project - San Luis Obispo County, Annual

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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	2.00	2.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	8.00	2.00	267.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	18.00	3.00	2.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	2.00	2.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	2.00	2.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.2000e-004	0.0000	4.2000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3400e-003	0.0155	9.8100e-003	2.0000e-005		5.7000e-004	5.7000e-004		5.2000e-004	5.2000e-004	0.0000	2.1374	2.1374	6.9000e-004	0.0000	2.1547
Total	1.3400e-003	0.0155	9.8100e-003	2.0000e-005	4.2000e-004	5.7000e-004	9.9000e-004	5.0000e-005	5.2000e-004	5.7000e-004	0.0000	2.1374	2.1374	6.9000e-004	0.0000	2.1547

McMillan Project - San Luis Obispo County, Annual

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

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.7000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0614	0.0614	0.0000	1.0000e-005	0.0644
Vendor	1.0000e-005	2.1000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0721	0.0721	0.0000	1.0000e-005	0.0753
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0924	0.0924	0.0000	0.0000	0.0932
Total	5.0000e-005	4.1000e-004	4.3000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.2259	0.2259	0.0000	2.0000e-005	0.2330

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					4.2000e-004	0.0000	4.2000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3400e-003	0.0155	9.8100e-003	2.0000e-005		5.7000e-004	5.7000e-004		5.2000e-004	5.2000e-004	0.0000	2.1374	2.1374	6.9000e-004	0.0000	2.1547
Total	1.3400e-003	0.0155	9.8100e-003	2.0000e-005	4.2000e-004	5.7000e-004	9.9000e-004	5.0000e-005	5.2000e-004	5.7000e-004	0.0000	2.1374	2.1374	6.9000e-004	0.0000	2.1547

McMillan Project - San Luis Obispo County, Annual

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

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.7000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0614	0.0614	0.0000	1.0000e-005	0.0644
Vendor	1.0000e-005	2.1000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0721	0.0721	0.0000	1.0000e-005	0.0753
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0924	0.0924	0.0000	0.0000	0.0932
Total	5.0000e-005	4.1000e-004	4.3000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.2259	0.2259	0.0000	2.0000e-005	0.2330

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1226	0.0000	0.1226	0.0664	0.0000	0.0664	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0345	0.3377	0.2064	6.3000e-004		0.0135	0.0135		0.0125	0.0125	0.0000	55.3260	55.3260	0.0179	0.0000	55.7733
Total	0.0345	0.3377	0.2064	6.3000e-004	0.1226	0.0135	0.1361	0.0664	0.0125	0.0789	0.0000	55.3260	55.3260	0.0179	0.0000	55.7733

McMillan Project - San Luis Obispo County, Annual

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

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0226	4.3100e-003	8.0000e-005	2.2800e-003	1.8000e-004	2.4600e-003	6.3000e-004	1.7000e-004	8.0000e-004	0.0000	8.2024	8.2024	2.9000e-004	1.3000e-003	8.5969
Vendor	5.0000e-005	1.6500e-003	5.3000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5771	0.5771	1.0000e-005	8.0000e-005	0.6027
Worker	5.1000e-004	3.7000e-004	4.2200e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1821	1.1821	3.0000e-005	3.0000e-005	1.1930
Total	9.2000e-004	0.0246	9.0600e-003	1.0000e-004	4.0000e-003	2.0000e-004	4.2000e-003	1.0900e-003	1.9000e-004	1.2800e-003	0.0000	9.9616	9.9616	3.3000e-004	1.4100e-003	10.3926

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					0.1226	0.0000	0.1226	0.0664	0.0000	0.0664	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0345	0.3377	0.2064	6.3000e-004		0.0135	0.0135		0.0125	0.0125	0.0000	55.3259	55.3259	0.0179	0.0000	55.7732
Total	0.0345	0.3377	0.2064	6.3000e-004	0.1226	0.0135	0.1361	0.0664	0.0125	0.0789	0.0000	55.3259	55.3259	0.0179	0.0000	55.7732

McMillan Project - San Luis Obispo County, Annual

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

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.6000e-004	0.0226	4.3100e-003	8.0000e-005	2.2800e-003	1.8000e-004	2.4600e-003	6.3000e-004	1.7000e-004	8.0000e-004	0.0000	8.2024	8.2024	2.9000e-004	1.3000e-003	8.5969
Vendor	5.0000e-005	1.6500e-003	5.3000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5771	0.5771	1.0000e-005	8.0000e-005	0.6027
Worker	5.1000e-004	3.7000e-004	4.2200e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1821	1.1821	3.0000e-005	3.0000e-005	1.1930
Total	9.2000e-004	0.0246	9.0600e-003	1.0000e-004	4.0000e-003	2.0000e-004	4.2000e-003	1.0900e-003	1.9000e-004	1.2800e-003	0.0000	9.9616	9.9616	3.3000e-004	1.4100e-003	10.3926

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1558	1.4043	1.6007	3.4000e-003		0.0636	0.0636		0.0596	0.0596	0.0000	297.6673	297.6673	0.0805	0.0000	299.6793
Total	0.1558	1.4043	1.6007	3.4000e-003		0.0636	0.0636		0.0596	0.0596	0.0000	297.6673	297.6673	0.0805	0.0000	299.6793

McMillan Project - San Luis Obispo County, Annual

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

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.7000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0614	0.0614	0.0000	1.0000e-005	0.0644
Vendor	3.5000e-004	0.0124	3.9800e-003	4.0000e-005	1.3600e-003	7.0000e-005	1.4300e-003	3.9000e-004	7.0000e-005	4.6000e-004	0.0000	4.3282	4.3282	1.0000e-004	6.4000e-004	4.5201
Worker	5.7300e-003	4.1800e-003	0.0475	1.5000e-004	0.0173	9.0000e-005	0.0174	4.6100e-003	8.0000e-005	4.6800e-003	0.0000	13.2985	13.2985	3.7000e-004	3.8000e-004	13.4217
Total	6.0800e-003	0.0168	0.0515	1.9000e-004	0.0187	1.6000e-004	0.0189	5.0000e-003	1.5000e-004	5.1500e-003	0.0000	17.6882	17.6882	4.7000e-004	1.0300e-003	18.0062

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	0.1558	1.4043	1.6007	3.4000e-003		0.0636	0.0636		0.0596	0.0596	0.0000	297.6670	297.6670	0.0805	0.0000	299.6789
Total	0.1558	1.4043	1.6007	3.4000e-003		0.0636	0.0636		0.0596	0.0596	0.0000	297.6670	297.6670	0.0805	0.0000	299.6789

McMillan Project - San Luis Obispo County, Annual

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

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.7000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0614	0.0614	0.0000	1.0000e-005	0.0644
Vendor	3.5000e-004	0.0124	3.9800e-003	4.0000e-005	1.3600e-003	7.0000e-005	1.4300e-003	3.9000e-004	7.0000e-005	4.6000e-004	0.0000	4.3282	4.3282	1.0000e-004	6.4000e-004	4.5201
Worker	5.7300e-003	4.1800e-003	0.0475	1.5000e-004	0.0173	9.0000e-005	0.0174	4.6100e-003	8.0000e-005	4.6800e-003	0.0000	13.2985	13.2985	3.7000e-004	3.8000e-004	13.4217
Total	6.0800e-003	0.0168	0.0515	1.9000e-004	0.0187	1.6000e-004	0.0189	5.0000e-003	1.5000e-004	5.1500e-003	0.0000	17.6882	17.6882	4.7000e-004	1.0300e-003	18.0062

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.6600e-003	0.0325	0.0410	7.0000e-005		1.5500e-003	1.5500e-003		1.4500e-003	1.4500e-003	0.0000	5.5019	5.5019	1.5800e-003	0.0000	5.5414
Paving	2.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9400e-003	0.0325	0.0410	7.0000e-005		1.5500e-003	1.5500e-003		1.4500e-003	1.4500e-003	0.0000	5.5019	5.5019	1.5800e-003	0.0000	5.5414

McMillan Project - San Luis Obispo County, Annual

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

3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.7000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0614	0.0614	0.0000	1.0000e-005	0.0644
Vendor	1.0000e-005	4.1000e-004	1.3000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1443	0.1443	0.0000	2.0000e-005	0.1507
Worker	2.9000e-004	2.1000e-004	2.3800e-003	1.0000e-005	8.7000e-004	0.0000	8.7000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.6649	0.6649	2.0000e-005	2.0000e-005	0.6711
Total	3.0000e-004	7.9000e-004	2.5400e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.4000e-004	0.0000	2.6000e-004	0.0000	0.8706	0.8706	2.0000e-005	5.0000e-005	0.8862

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	3.6600e-003	0.0325	0.0410	7.0000e-005		1.5500e-003	1.5500e-003		1.4500e-003	1.4500e-003	0.0000	5.5019	5.5019	1.5800e-003	0.0000	5.5414
Paving	2.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9400e-003	0.0325	0.0410	7.0000e-005		1.5500e-003	1.5500e-003		1.4500e-003	1.4500e-003	0.0000	5.5019	5.5019	1.5800e-003	0.0000	5.5414

McMillan Project - San Luis Obispo County, Annual

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

3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.7000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0614	0.0614	0.0000	1.0000e-005	0.0644
Vendor	1.0000e-005	4.1000e-004	1.3000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1443	0.1443	0.0000	2.0000e-005	0.1507
Worker	2.9000e-004	2.1000e-004	2.3800e-003	1.0000e-005	8.7000e-004	0.0000	8.7000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.6649	0.6649	2.0000e-005	2.0000e-005	0.6711
Total	3.0000e-004	7.9000e-004	2.5400e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.4000e-004	0.0000	2.6000e-004	0.0000	0.8706	0.8706	2.0000e-005	5.0000e-005	0.8862

3.6 Architectural Coating - 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					
Archit. Coating	0.0985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4000e-004	4.3400e-003	6.0400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8524
Total	0.0991	4.3400e-003	6.0400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8524

McMillan Project - San Luis Obispo County, Annual

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

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.7000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0614	0.0614	0.0000	1.0000e-005	0.0644
Vendor	1.0000e-005	2.1000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0721	0.0721	0.0000	1.0000e-005	0.0753
Worker	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0369	0.0369	0.0000	0.0000	0.0373
Total	3.0000e-005	3.9000e-004	2.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.1705	0.1705	0.0000	2.0000e-005	0.1770

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	0.0985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4000e-004	4.3400e-003	6.0400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8524
Total	0.0991	4.3400e-003	6.0400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8524

McMillan Project - San Luis Obispo County, Annual

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

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.7000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0614	0.0614	0.0000	1.0000e-005	0.0644
Vendor	1.0000e-005	2.1000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0721	0.0721	0.0000	1.0000e-005	0.0753
Worker	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0369	0.0369	0.0000	0.0000	0.0373
Total	3.0000e-005	3.9000e-004	2.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.1705	0.1705	0.0000	2.0000e-005	0.1770

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

McMillan Project - San Luis Obispo County, Annual

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					
Mitigated	0.0290	0.0460	0.2763	5.4000e-004	0.0536	5.3000e-004	0.0542	0.0143	5.0000e-004	0.0148	0.0000	49.4705	49.4705	3.2600e-003	2.5800e-003	50.3208
Unmitigated	0.0290	0.0460	0.2763	5.4000e-004	0.0536	5.3000e-004	0.0542	0.0143	5.0000e-004	0.0148	0.0000	49.4705	49.4705	3.2600e-003	2.5800e-003	50.3208

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	43.42	43.42	43.42	143,293	143,293
Total	43.42	43.42	43.42	143,293	143,293

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
Other Asphalt Surfaces	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	13.00	5.00	5.00	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.480413	0.056178	0.203888	0.151644	0.040330	0.009776	0.008210	0.005953	0.000975	0.000369	0.033870	0.001035	0.007358
Parking Lot	0.480413	0.056178	0.203888	0.151644	0.040330	0.009776	0.008210	0.005953	0.000975	0.000369	0.033870	0.001035	0.007358

McMillan Project - San Luis Obispo County, Annual

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

Unrefrigerated Warehouse-No Rail	0.480413	0.056178	0.203888	0.151644	0.040330	0.009776	0.008210	0.005953	0.000975	0.000369	0.033870	0.001035	0.007358
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.8465	2.8465	4.6000e-004	6.0000e-005	2.8746
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.8465	2.8465	4.6000e-004	6.0000e-005	2.8746
NaturalGas Mitigated	1.5000e-004	1.3900e-003	1.1700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5181	1.5181	3.0000e-005	3.0000e-005	1.5272
NaturalGas Unmitigated	1.5000e-004	1.3900e-003	1.1700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5181	1.5181	3.0000e-005	3.0000e-005	1.5272

McMillan Project - San Luis Obispo County, Annual

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					
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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	28448.8	1.5000e-004	1.3900e-003	1.1700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5181	1.5181	3.0000e-005	3.0000e-005	1.5272
Total		1.5000e-004	1.3900e-003	1.1700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5181	1.5181	3.0000e-005	3.0000e-005	1.5272

McMillan Project - San Luis Obispo County, Annual

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	28448.8	1.5000e-004	1.3900e-003	1.1700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5181	1.5181	3.0000e-005	3.0000e-005	1.5272
Total		1.5000e-004	1.3900e-003	1.1700e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5181	1.5181	3.0000e-005	3.0000e-005	1.5272

McMillan Project - San Luis Obispo County, Annual

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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1820	0.1684	3.0000e-005	0.0000	0.1701
Unrefrigerated Warehouse-No Rail	28945	2.6781	4.3000e-004	5.0000e-005	2.7046
Total		2.8465	4.6000e-004	5.0000e-005	2.8746

McMillan Project - San Luis Obispo County, Annual

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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1820	0.1684	3.0000e-005	0.0000	0.1701
Unrefrigerated Warehouse-No Rail	28945	2.6781	4.3000e-004	5.0000e-005	2.7046
Total		2.8465	4.6000e-004	5.0000e-005	2.8746

6.0 Area Detail

6.1 Mitigation Measures Area

McMillan Project - San Luis Obispo County, Annual

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					
Mitigated	0.0428	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.8000e-004
Unmitigated	0.0428	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.8000e-004

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	9.8500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0329					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.8000e-004
Total	0.0428	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.8000e-004

McMillan Project - San Luis Obispo County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.8500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0329					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.8000e-004
Total	0.0428	0.0000	4.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.8000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

McMillan Project - San Luis Obispo County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.5642	0.0625	1.4900e-003	3.5701
Unmitigated	1.5642	0.0625	1.4900e-003	3.5701

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.91244 / 0	1.5642	0.0625	1.4900e-003	3.5701
Total		1.5642	0.0625	1.4900e-003	3.5701

McMillan Project - San Luis Obispo County, Annual

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

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.91244 / 0	1.5642	0.0625	1.4900e-003	3.5701
Total		1.5642	0.0625	1.4900e-003	3.5701

8.0 Waste Detail

8.1 Mitigation Measures Waste

McMillan Project - San Luis Obispo County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.5772	0.0932	0.0000	3.9075
Unmitigated	1.5772	0.0932	0.0000	3.9075

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	7.77	1.5772	0.0932	0.0000	3.9075
Total		1.5772	0.0932	0.0000	3.9075

McMillan Project - San Luis Obispo County, Annual

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

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	7.77	1.5772	0.0932	0.0000	3.9075
Total		1.5772	0.0932	0.0000	3.9075

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

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

McMillan Project - San Luis Obispo County, Annual

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

11.0 Vegetation

McMillan Project - San Luis Obispo County, Summer

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

McMillan Project
San Luis Obispo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	8.27	1000sqft	0.19	8,270.00	0
Other Asphalt Surfaces	3.95	1000sqft	0.09	3,954.00	0
Parking Lot	13.00	Space	0.12	5,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2023
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 -

Land Use -

Construction Phase - !0 month construction duration
 6 days per week

Grading - site preparation - 2 passes over the 0.4 acres
 grading - 10 passes over the 0.4 acres

Off-road Equipment - 8 hours/day

Off-road Equipment - 8 hours/day

Off-road Equipment -

Off-road Equipment - 8 hours/day

Off-road Equipment - 8 hours/day

McMillan Project - San Luis Obispo County, Summer

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

Trips and VMT - Modified based project specific maximums

Vehicle Trips - Modified to reflect project maximum

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	4,135.00	4,136.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	12,405.00	12,408.00
tblArchitecturalCoating	ConstArea_Parking	549.00	758.00
tblAreaCoating	Area_Nonresidential_Exterior	4135	4136
tblAreaCoating	Area_Nonresidential_Interior	12405	12408
tblAreaCoating	Area_Parking	549	758
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	2.00	40.00
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	40.00	4.00
tblGrading	AcresOfGrading	2.50	0.80
tblGrading	MaterialImported	0.00	2,700.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

McMillan Project - San Luis Obispo County, Summer

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

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	7.00	18.00
tblTripsAndVMT	WorkerTripNumber	1.00	2.00
tblVehicleTrips	ST_TR	1.74	5.25
tblVehicleTrips	SU_TR	1.74	5.25
tblVehicleTrips	WD_TR	1.74	5.25

2.0 Emissions Summary

McMillan Project - San Luis Obispo County, Summer

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	0.2344	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5200e-003	5.5200e-003	1.0000e-005		5.8800e-003
Energy	8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241
Mobile	0.1642	0.2375	1.4865	3.0300e-003	0.3025	2.9200e-003	0.3054	0.0807	2.7500e-003	0.0835		307.8064	307.8064	0.0188	0.0150	312.7396
Total	0.3995	0.2451	1.4955	3.0800e-003	0.3025	3.5100e-003	0.3060	0.0807	3.3400e-003	0.0841		316.9816	316.9816	0.0190	0.0152	321.9697

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	0.2344	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5200e-003	5.5200e-003	1.0000e-005		5.8800e-003
Energy	8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241
Mobile	0.1642	0.2375	1.4865	3.0300e-003	0.3025	2.9200e-003	0.3054	0.0807	2.7500e-003	0.0835		307.8064	307.8064	0.0188	0.0150	312.7396
Total	0.3995	0.2451	1.4955	3.0800e-003	0.3025	3.5100e-003	0.3060	0.0807	3.3400e-003	0.0841		316.9816	316.9816	0.0190	0.0152	321.9697

McMillan Project - San Luis Obispo County, Summer

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	Site Preparation	Site Preparation	1/1/2023	1/6/2023	6	5	
2	Grading	Grading	1/7/2023	2/22/2023	6	40	
3	Building Construction	Building Construction	2/23/2023	10/13/2023	6	200	
4	Paving	Paving	10/14/2023	10/25/2023	6	10	
5	Architectural Coating	Architectural Coating	10/26/2023	10/31/2023	6	5	

Acres of Grading (Site Preparation Phase): 0.8

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.21

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,408; Non-Residential Outdoor: 4,136; Striped Parking Area: 758 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29

McMillan Project - San Luis Obispo County, Summer

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

Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Building Construction	Off-Highway Trucks	1	8.00	402	0.38
Grading	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Building Construction	Generator Sets	1	8.00	84	0.74

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	2.00	2.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	8.00	2.00	267.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	18.00	3.00	2.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	2.00	2.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	2.00	2.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

McMillan Project - San Luis Obispo County, Summer

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1697	0.0000	0.1697	0.0183	0.0000	0.0183			0.0000			0.0000
Off-Road	0.5348	6.1887	3.9239	9.7300e-003		0.2266	0.2266		0.2084	0.2084		942.4317	942.4317	0.3048		950.0517
Total	0.5348	6.1887	3.9239	9.7300e-003	0.1697	0.2266	0.3963	0.0183	0.2084	0.2268		942.4317	942.4317	0.3048		950.0517

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	1.1000e-003	0.0655	0.0128	2.5000e-004	6.9900e-003	5.3000e-004	7.5200e-003	1.9200e-003	5.1000e-004	2.4200e-003		27.0819	27.0819	9.5000e-004	4.2900e-003	28.3844
Vendor	2.3800e-003	0.0801	0.0260	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1200e-003		31.7851	31.7851	7.1000e-004	4.6700e-003	33.1934
Worker	0.0158	0.0105	0.1360	4.2000e-004	0.0494	2.4000e-004	0.0497	0.0131	2.2000e-004	0.0133		42.1960	42.1960	1.0800e-003	1.0900e-003	42.5482
Total	0.0193	0.1561	0.1748	9.7000e-004	0.0657	1.2400e-003	0.0670	0.0177	1.1800e-003	0.0189		101.0630	101.0630	2.7400e-003	0.0101	104.1260

McMillan Project - San Luis Obispo County, Summer

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1697	0.0000	0.1697	0.0183	0.0000	0.0183			0.0000			0.0000
Off-Road	0.5348	6.1887	3.9239	9.7300e-003		0.2266	0.2266		0.2084	0.2084	0.0000	942.4317	942.4317	0.3048		950.0517
Total	0.5348	6.1887	3.9239	9.7300e-003	0.1697	0.2266	0.3963	0.0183	0.2084	0.2268	0.0000	942.4317	942.4317	0.3048		950.0517

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	1.1000e-003	0.0655	0.0128	2.5000e-004	6.9900e-003	5.3000e-004	7.5200e-003	1.9200e-003	5.1000e-004	2.4200e-003		27.0819	27.0819	9.5000e-004	4.2900e-003	28.3844
Vendor	2.3800e-003	0.0801	0.0260	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1200e-003		31.7851	31.7851	7.1000e-004	4.6700e-003	33.1934
Worker	0.0158	0.0105	0.1360	4.2000e-004	0.0494	2.4000e-004	0.0497	0.0131	2.2000e-004	0.0133		42.1960	42.1960	1.0800e-003	1.0900e-003	42.5482
Total	0.0193	0.1561	0.1748	9.7000e-004	0.0657	1.2400e-003	0.0670	0.0177	1.1800e-003	0.0189		101.0630	101.0630	2.7400e-003	0.0101	104.1260

McMillan Project - San Luis Obispo County, Summer

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1281	0.0000	6.1281	3.3217	0.0000	3.3217			0.0000			0.0000
Off-Road	1.7234	16.8838	10.3188	0.0315		0.6765	0.6765		0.6224	0.6224		3,049.3209	3,049.3209	0.9862		3,073.9762
Total	1.7234	16.8838	10.3188	0.0315	6.1281	0.6765	6.8046	3.3217	0.6224	3.9441		3,049.3209	3,049.3209	0.9862		3,073.9762

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	0.0183	1.0930	0.2140	4.1500e-003	0.1167	8.8300e-003	0.1255	0.0320	8.4500e-003	0.0404		451.9285	451.9285	0.0158	0.0716	473.6650
Vendor	2.3800e-003	0.0801	0.0260	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1200e-003		31.7851	31.7851	7.1000e-004	4.6700e-003	33.1934
Worker	0.0253	0.0167	0.2175	6.7000e-004	0.0791	3.8000e-004	0.0795	0.0210	3.5000e-004	0.0213		67.5136	67.5136	1.7300e-003	1.7500e-003	68.0771
Total	0.0460	1.1898	0.4576	5.1200e-003	0.2051	9.6800e-003	0.2148	0.0557	9.2500e-003	0.0649		551.2272	551.2272	0.0183	0.0780	574.9355

McMillan Project - San Luis Obispo County, Summer

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1281	0.0000	6.1281	3.3217	0.0000	3.3217			0.0000			0.0000
Off-Road	1.7234	16.8838	10.3188	0.0315		0.6765	0.6765		0.6224	0.6224	0.0000	3,049.3209	3,049.3209	0.9862		3,073.9762
Total	1.7234	16.8838	10.3188	0.0315	6.1281	0.6765	6.8046	3.3217	0.6224	3.9441	0.0000	3,049.3209	3,049.3209	0.9862		3,073.9762

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	0.0183	1.0930	0.2140	4.1500e-003	0.1167	8.8300e-003	0.1255	0.0320	8.4500e-003	0.0404		451.9285	451.9285	0.0158	0.0716	473.6650
Vendor	2.3800e-003	0.0801	0.0260	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1200e-003		31.7851	31.7851	7.1000e-004	4.6700e-003	33.1934
Worker	0.0253	0.0167	0.2175	6.7000e-004	0.0791	3.8000e-004	0.0795	0.0210	3.5000e-004	0.0213		67.5136	67.5136	1.7300e-003	1.7500e-003	68.0771
Total	0.0460	1.1898	0.4576	5.1200e-003	0.2051	9.6800e-003	0.2148	0.0557	9.2500e-003	0.0649		551.2272	551.2272	0.0183	0.0780	574.9355

McMillan Project - San Luis Obispo County, Summer

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

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5581	14.0431	16.0071	0.0340		0.6363	0.6363		0.5957	0.5957		3,281.2208	3,281.2208	0.8871		3,303.3988
Total	1.5581	14.0431	16.0071	0.0340		0.6363	0.6363		0.5957	0.5957		3,281.2208	3,281.2208	0.8871		3,303.3988

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	3.0000e-005	1.6400e-003	3.2000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005		0.6771	0.6771	2.0000e-005	1.1000e-004	0.7096
Vendor	3.5600e-003	0.1202	0.0390	4.4000e-004	0.0139	7.0000e-004	0.0146	4.0200e-003	6.7000e-004	4.6900e-003		47.6777	47.6777	1.0600e-003	7.0000e-003	49.7901
Worker	0.0568	0.0376	0.4895	1.5000e-003	0.1780	8.5000e-004	0.1788	0.0472	7.8000e-004	0.0480		151.9056	151.9056	3.9000e-003	3.9300e-003	153.1735
Total	0.0604	0.1594	0.5288	1.9500e-003	0.1921	1.5600e-003	0.1936	0.0513	1.4600e-003	0.0527		200.2603	200.2603	4.9800e-003	0.0110	203.6732

McMillan Project - San Luis Obispo County, Summer

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

3.4 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5581	14.0431	16.0071	0.0340		0.6363	0.6363		0.5957	0.5957	0.0000	3,281.2208	3,281.2208	0.8871		3,303.3988
Total	1.5581	14.0431	16.0071	0.0340		0.6363	0.6363		0.5957	0.5957	0.0000	3,281.2208	3,281.2208	0.8871		3,303.3988

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	3.0000e-005	1.6400e-003	3.2000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005		0.6771	0.6771	2.0000e-005	1.1000e-004	0.7096
Vendor	3.5600e-003	0.1202	0.0390	4.4000e-004	0.0139	7.0000e-004	0.0146	4.0200e-003	6.7000e-004	4.6900e-003		47.6777	47.6777	1.0600e-003	7.0000e-003	49.7901
Worker	0.0568	0.0376	0.4895	1.5000e-003	0.1780	8.5000e-004	0.1788	0.0472	7.8000e-004	0.0480		151.9056	151.9056	3.9000e-003	3.9300e-003	153.1735
Total	0.0604	0.1594	0.5288	1.9500e-003	0.1921	1.5600e-003	0.1936	0.0513	1.4600e-003	0.0527		200.2603	200.2603	4.9800e-003	0.0110	203.6732

McMillan Project - San Luis Obispo County, Summer

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

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7320	6.5013	8.2001	0.0133		0.3102	0.3102		0.2900	0.2900		1,212.9668	1,212.9668	0.3479		1,221.6649
Paving	0.0550					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7871	6.5013	8.2001	0.0133		0.3102	0.3102		0.2900	0.2900		1,212.9668	1,212.9668	0.3479		1,221.6649

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	5.5000e-004	0.0328	6.4100e-003	1.2000e-004	3.5000e-003	2.6000e-004	3.7600e-003	9.6000e-004	2.5000e-004	1.2100e-003		13.5409	13.5409	4.7000e-004	2.1500e-003	14.1922
Vendor	2.3800e-003	0.0801	0.0260	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1200e-003		31.7851	31.7851	7.1000e-004	4.6700e-003	33.1934
Worker	0.0568	0.0376	0.4895	1.5000e-003	0.1780	8.5000e-004	0.1788	0.0472	7.8000e-004	0.0480		151.9056	151.9056	3.9000e-003	3.9300e-003	153.1735
Total	0.0598	0.1505	0.5219	1.9200e-003	0.1907	1.5800e-003	0.1923	0.0508	1.4800e-003	0.0523		197.2316	197.2316	5.0800e-003	0.0108	200.5591

McMillan Project - San Luis Obispo County, Summer

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

3.5 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7320	6.5013	8.2001	0.0133		0.3102	0.3102		0.2900	0.2900	0.0000	1,212.9668	1,212.9668	0.3479		1,221.6649
Paving	0.0550					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7871	6.5013	8.2001	0.0133		0.3102	0.3102		0.2900	0.2900	0.0000	1,212.9668	1,212.9668	0.3479		1,221.6649

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	5.5000e-004	0.0328	6.4100e-003	1.2000e-004	3.5000e-003	2.6000e-004	3.7600e-003	9.6000e-004	2.5000e-004	1.2100e-003		13.5409	13.5409	4.7000e-004	2.1500e-003	14.1922
Vendor	2.3800e-003	0.0801	0.0260	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1200e-003		31.7851	31.7851	7.1000e-004	4.6700e-003	33.1934
Worker	0.0568	0.0376	0.4895	1.5000e-003	0.1780	8.5000e-004	0.1788	0.0472	7.8000e-004	0.0480		151.9056	151.9056	3.9000e-003	3.9300e-003	153.1735
Total	0.0598	0.1505	0.5219	1.9200e-003	0.1907	1.5800e-003	0.1923	0.0508	1.4800e-003	0.0523		197.2316	197.2316	5.0800e-003	0.0108	200.5591

McMillan Project - San Luis Obispo County, Summer

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

3.6 Architectural Coating - 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					
Archit. Coating	39.3947					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	39.6503	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253

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	1.1000e-003	0.0655	0.0128	2.5000e-004	6.9900e-003	5.3000e-004	7.5200e-003	1.9200e-003	5.1000e-004	2.4200e-003		27.0819	27.0819	9.5000e-004	4.2900e-003	28.3844
Vendor	2.3800e-003	0.0801	0.0260	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1200e-003		31.7851	31.7851	7.1000e-004	4.6700e-003	33.1934
Worker	6.3100e-003	4.1800e-003	0.0544	1.7000e-004	0.0198	9.0000e-005	0.0199	5.2400e-003	9.0000e-005	5.3300e-003		16.8784	16.8784	4.3000e-004	4.4000e-004	17.0193
Total	9.7900e-003	0.1498	0.0932	7.2000e-004	0.0361	1.0900e-003	0.0372	9.8400e-003	1.0500e-003	0.0109		75.7454	75.7454	2.0900e-003	9.4000e-003	78.5971

McMillan Project - San Luis Obispo County, Summer

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

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.3947					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	39.6503	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253

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	1.1000e-003	0.0655	0.0128	2.5000e-004	6.9900e-003	5.3000e-004	7.5200e-003	1.9200e-003	5.1000e-004	2.4200e-003		27.0819	27.0819	9.5000e-004	4.2900e-003	28.3844
Vendor	2.3800e-003	0.0801	0.0260	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1200e-003		31.7851	31.7851	7.1000e-004	4.6700e-003	33.1934
Worker	6.3100e-003	4.1800e-003	0.0544	1.7000e-004	0.0198	9.0000e-005	0.0199	5.2400e-003	9.0000e-005	5.3300e-003		16.8784	16.8784	4.3000e-004	4.4000e-004	17.0193
Total	9.7900e-003	0.1498	0.0932	7.2000e-004	0.0361	1.0900e-003	0.0372	9.8400e-003	1.0500e-003	0.0109		75.7454	75.7454	2.0900e-003	9.4000e-003	78.5971

McMillan Project - San Luis Obispo County, Summer

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	0.1642	0.2375	1.4865	3.0300e-003	0.3025	2.9200e-003	0.3054	0.0807	2.7500e-003	0.0835		307.8064	307.8064	0.0188	0.0150	312.7396
Unmitigated	0.1642	0.2375	1.4865	3.0300e-003	0.3025	2.9200e-003	0.3054	0.0807	2.7500e-003	0.0835		307.8064	307.8064	0.0188	0.0150	312.7396

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	43.42	43.42	43.42	143,293	143,293
Total	43.42	43.42	43.42	143,293	143,293

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
Other Asphalt Surfaces	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	13.00	5.00	5.00	59.00	0.00	41.00	92	5	3

McMillan Project - San Luis Obispo County, Summer

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.480413	0.056178	0.203888	0.151644	0.040330	0.009776	0.008210	0.005953	0.000975	0.000369	0.033870	0.001035	0.007358
Parking Lot	0.480413	0.056178	0.203888	0.151644	0.040330	0.009776	0.008210	0.005953	0.000975	0.000369	0.033870	0.001035	0.007358
Unrefrigerated Warehouse-No Rail	0.480413	0.056178	0.203888	0.151644	0.040330	0.009776	0.008210	0.005953	0.000975	0.000369	0.033870	0.001035	0.007358

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	8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241
NaturalGas Unmitigated	8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241

McMillan Project - San Luis Obispo County, Summer

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					
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	77.9419	8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241
Total		8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241

McMillan Project - San Luis Obispo County, Summer

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

Mitigated

	NaturalGas s 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					
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.0779419	8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241
Total		8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241

6.0 Area Detail

6.1 Mitigation Measures Area

McMillan Project - San Luis Obispo County, Summer

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					
Mitigated	0.2344	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5200e-003	5.5200e-003	1.0000e-005		5.8800e-003
Unmitigated	0.2344	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5200e-003	5.5200e-003	1.0000e-005		5.8800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0540					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1802					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5200e-003	5.5200e-003	1.0000e-005		5.8800e-003
Total	0.2344	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5200e-003	5.5200e-003	1.0000e-005		5.8800e-003

McMillan Project - San Luis Obispo County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0540					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1802					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.5200e-003	5.5200e-003	1.0000e-005	5.8800e-003
Total	0.2344	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.5200e-003	5.5200e-003	1.0000e-005	5.8800e-003

7.0 Water Detail

7.1 Mitigation Measures Water

McMillan Project - San Luis Obispo County, Summer

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

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

McMillan Project - San Luis Obispo County, Winter

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

McMillan Project
San Luis Obispo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	8.27	1000sqft	0.19	8,270.00	0
Other Asphalt Surfaces	3.95	1000sqft	0.09	3,954.00	0
Parking Lot	13.00	Space	0.12	5,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2023
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 -

Land Use -

Construction Phase - !0 month construction duration
 6 days per week

Grading - site preparation - 2 passes over the 0.4 acres
 grading - 10 passes over the 0.4 acres

Off-road Equipment - 8 hours/day

Off-road Equipment - 8 hours/day

Off-road Equipment -

Off-road Equipment - 8 hours/day

Off-road Equipment - 8 hours/day

McMillan Project - San Luis Obispo County, Winter

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

Trips and VMT - Modified based project specific maximums

Vehicle Trips - Modified to reflect project maximum

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	4,135.00	4,136.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	12,405.00	12,408.00
tblArchitecturalCoating	ConstArea_Parking	549.00	758.00
tblAreaCoating	Area_Nonresidential_Exterior	4135	4136
tblAreaCoating	Area_Nonresidential_Interior	12405	12408
tblAreaCoating	Area_Parking	549	758
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	2.00	40.00
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	40.00	4.00
tblGrading	AcresOfGrading	2.50	0.80
tblGrading	MaterialImported	0.00	2,700.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

McMillan Project - San Luis Obispo County, Winter

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

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	7.00	18.00
tblTripsAndVMT	WorkerTripNumber	1.00	2.00
tblVehicleTrips	ST_TR	1.74	5.25
tblVehicleTrips	SU_TR	1.74	5.25
tblVehicleTrips	WD_TR	1.74	5.25

2.0 Emissions Summary

McMillan Project - San Luis Obispo County, Winter

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	0.2344	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5200e-003	5.5200e-003	1.0000e-005		5.8800e-003
Energy	8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241
Mobile	0.1625	0.2544	1.5593	2.9300e-003	0.3025	2.9200e-003	0.3054	0.0807	2.7500e-003	0.0835		298.4899	298.4899	0.0203	0.0158	303.7018
Total	0.3978	0.2621	1.5683	2.9800e-003	0.3025	3.5100e-003	0.3060	0.0807	3.3400e-003	0.0841		307.6650	307.6650	0.0205	0.0160	312.9318

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	0.2344	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5200e-003	5.5200e-003	1.0000e-005		5.8800e-003
Energy	8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241
Mobile	0.1625	0.2544	1.5593	2.9300e-003	0.3025	2.9200e-003	0.3054	0.0807	2.7500e-003	0.0835		298.4899	298.4899	0.0203	0.0158	303.7018
Total	0.3978	0.2621	1.5683	2.9800e-003	0.3025	3.5100e-003	0.3060	0.0807	3.3400e-003	0.0841		307.6650	307.6650	0.0205	0.0160	312.9318

McMillan Project - San Luis Obispo County, Winter

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	Site Preparation	Site Preparation	1/1/2023	1/6/2023	6	5	
2	Grading	Grading	1/7/2023	2/22/2023	6	40	
3	Building Construction	Building Construction	2/23/2023	10/13/2023	6	200	
4	Paving	Paving	10/14/2023	10/25/2023	6	10	
5	Architectural Coating	Architectural Coating	10/26/2023	10/31/2023	6	5	

Acres of Grading (Site Preparation Phase): 0.8

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.21

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,408; Non-Residential Outdoor: 4,136; Striped Parking Area: 758 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29

McMillan Project - San Luis Obispo County, Winter

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

Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Building Construction	Off-Highway Trucks	1	8.00	402	0.38
Grading	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Building Construction	Generator Sets	1	8.00	84	0.74

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	2.00	2.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	8.00	2.00	267.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	18.00	3.00	2.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	2.00	2.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	2.00	2.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

McMillan Project - San Luis Obispo County, Winter

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1697	0.0000	0.1697	0.0183	0.0000	0.0183			0.0000			0.0000
Off-Road	0.5348	6.1887	3.9239	9.7300e-003		0.2266	0.2266		0.2084	0.2084		942.4317	942.4317	0.3048		950.0517
Total	0.5348	6.1887	3.9239	9.7300e-003	0.1697	0.2266	0.3963	0.0183	0.2084	0.2268		942.4317	942.4317	0.3048		950.0517

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	1.0500e-003	0.0674	0.0130	2.5000e-004	6.9900e-003	5.3000e-004	7.5200e-003	1.9200e-003	5.1000e-004	2.4200e-003		27.1036	27.1036	9.4000e-004	4.3000e-003	28.4071
Vendor	2.3200e-003	0.0828	0.0270	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1300e-003		31.8378	31.8378	7.0000e-004	4.6800e-003	33.2496
Worker	0.0174	0.0119	0.1327	4.0000e-004	0.0494	2.4000e-004	0.0497	0.0131	2.2000e-004	0.0133		40.4286	40.4286	1.1700e-003	1.1900e-003	40.8116
Total	0.0208	0.1620	0.1728	9.5000e-004	0.0657	1.2400e-003	0.0670	0.0177	1.1800e-003	0.0189		99.3700	99.3700	2.8100e-003	0.0102	102.4683

McMillan Project - San Luis Obispo County, Winter

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1697	0.0000	0.1697	0.0183	0.0000	0.0183			0.0000			0.0000
Off-Road	0.5348	6.1887	3.9239	9.7300e-003		0.2266	0.2266		0.2084	0.2084	0.0000	942.4317	942.4317	0.3048		950.0517
Total	0.5348	6.1887	3.9239	9.7300e-003	0.1697	0.2266	0.3963	0.0183	0.2084	0.2268	0.0000	942.4317	942.4317	0.3048		950.0517

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	1.0500e-003	0.0674	0.0130	2.5000e-004	6.9900e-003	5.3000e-004	7.5200e-003	1.9200e-003	5.1000e-004	2.4200e-003		27.1036	27.1036	9.4000e-004	4.3000e-003	28.4071
Vendor	2.3200e-003	0.0828	0.0270	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1300e-003		31.8378	31.8378	7.0000e-004	4.6800e-003	33.2496
Worker	0.0174	0.0119	0.1327	4.0000e-004	0.0494	2.4000e-004	0.0497	0.0131	2.2000e-004	0.0133		40.4286	40.4286	1.1700e-003	1.1900e-003	40.8116
Total	0.0208	0.1620	0.1728	9.5000e-004	0.0657	1.2400e-003	0.0670	0.0177	1.1800e-003	0.0189		99.3700	99.3700	2.8100e-003	0.0102	102.4683

McMillan Project - San Luis Obispo County, Winter

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1281	0.0000	6.1281	3.3217	0.0000	3.3217			0.0000			0.0000
Off-Road	1.7234	16.8838	10.3188	0.0315		0.6765	0.6765		0.6224	0.6224		3,049.3209	3,049.3209	0.9862		3,073.9762
Total	1.7234	16.8838	10.3188	0.0315	6.1281	0.6765	6.8046	3.3217	0.6224	3.9441		3,049.3209	3,049.3209	0.9862		3,073.9762

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	0.0175	1.1243	0.2172	4.1500e-003	0.1167	8.8400e-003	0.1256	0.0320	8.4600e-003	0.0405		452.2906	452.2906	0.0158	0.0717	474.0435
Vendor	2.3200e-003	0.0828	0.0270	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1300e-003		31.8378	31.8378	7.0000e-004	4.6800e-003	33.2496
Worker	0.0279	0.0190	0.2124	6.4000e-004	0.0791	3.8000e-004	0.0795	0.0210	3.5000e-004	0.0213		64.6858	64.6858	1.8700e-003	1.9000e-003	65.2986
Total	0.0477	1.2260	0.4566	5.0900e-003	0.2051	9.6900e-003	0.2148	0.0557	9.2600e-003	0.0649		548.8143	548.8143	0.0183	0.0783	572.5917

McMillan Project - San Luis Obispo County, Winter

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1281	0.0000	6.1281	3.3217	0.0000	3.3217			0.0000			0.0000
Off-Road	1.7234	16.8838	10.3188	0.0315		0.6765	0.6765		0.6224	0.6224	0.0000	3,049.3209	3,049.3209	0.9862		3,073.9762
Total	1.7234	16.8838	10.3188	0.0315	6.1281	0.6765	6.8046	3.3217	0.6224	3.9441	0.0000	3,049.3209	3,049.3209	0.9862		3,073.9762

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	0.0175	1.1243	0.2172	4.1500e-003	0.1167	8.8400e-003	0.1256	0.0320	8.4600e-003	0.0405		452.2906	452.2906	0.0158	0.0717	474.0435
Vendor	2.3200e-003	0.0828	0.0270	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1300e-003		31.8378	31.8378	7.0000e-004	4.6800e-003	33.2496
Worker	0.0279	0.0190	0.2124	6.4000e-004	0.0791	3.8000e-004	0.0795	0.0210	3.5000e-004	0.0213		64.6858	64.6858	1.8700e-003	1.9000e-003	65.2986
Total	0.0477	1.2260	0.4566	5.0900e-003	0.2051	9.6900e-003	0.2148	0.0557	9.2600e-003	0.0649		548.8143	548.8143	0.0183	0.0783	572.5917

McMillan Project - San Luis Obispo County, Winter

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

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5581	14.0431	16.0071	0.0340		0.6363	0.6363		0.5957	0.5957		3,281.2208	3,281.2208	0.8871		3,303.3988
Total	1.5581	14.0431	16.0071	0.0340		0.6363	0.6363		0.5957	0.5957		3,281.2208	3,281.2208	0.8871		3,303.3988

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	3.0000e-005	1.6800e-003	3.3000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005		0.6776	0.6776	2.0000e-005	1.1000e-004	0.7102
Vendor	3.4800e-003	0.1242	0.0405	4.5000e-004	0.0139	7.1000e-004	0.0146	4.0200e-003	6.7000e-004	4.6900e-003		47.7567	47.7567	1.0600e-003	7.0200e-003	49.8744
Worker	0.0627	0.0427	0.4778	1.4400e-003	0.1780	8.5000e-004	0.1788	0.0472	7.8000e-004	0.0480		145.5431	145.5431	4.2100e-003	4.2700e-003	146.9218
Total	0.0663	0.1686	0.5187	1.9000e-003	0.1921	1.5700e-003	0.1936	0.0513	1.4600e-003	0.0527		193.9774	193.9774	5.2900e-003	0.0114	197.5064

McMillan Project - San Luis Obispo County, Winter

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

3.4 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5581	14.0431	16.0071	0.0340		0.6363	0.6363		0.5957	0.5957	0.0000	3,281.2208	3,281.2208	0.8871		3,303.3988
Total	1.5581	14.0431	16.0071	0.0340		0.6363	0.6363		0.5957	0.5957	0.0000	3,281.2208	3,281.2208	0.8871		3,303.3988

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	3.0000e-005	1.6800e-003	3.3000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.9000e-004	5.0000e-005	1.0000e-005	6.0000e-005		0.6776	0.6776	2.0000e-005	1.1000e-004	0.7102
Vendor	3.4800e-003	0.1242	0.0405	4.5000e-004	0.0139	7.1000e-004	0.0146	4.0200e-003	6.7000e-004	4.6900e-003		47.7567	47.7567	1.0600e-003	7.0200e-003	49.8744
Worker	0.0627	0.0427	0.4778	1.4400e-003	0.1780	8.5000e-004	0.1788	0.0472	7.8000e-004	0.0480		145.5431	145.5431	4.2100e-003	4.2700e-003	146.9218
Total	0.0663	0.1686	0.5187	1.9000e-003	0.1921	1.5700e-003	0.1936	0.0513	1.4600e-003	0.0527		193.9774	193.9774	5.2900e-003	0.0114	197.5064

McMillan Project - San Luis Obispo County, Winter

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

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7320	6.5013	8.2001	0.0133		0.3102	0.3102		0.2900	0.2900		1,212.9668	1,212.9668	0.3479		1,221.6649
Paving	0.0550					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7871	6.5013	8.2001	0.0133		0.3102	0.3102		0.2900	0.2900		1,212.9668	1,212.9668	0.3479		1,221.6649

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	5.2000e-004	0.0337	6.5100e-003	1.2000e-004	3.5000e-003	2.7000e-004	3.7600e-003	9.6000e-004	2.5000e-004	1.2100e-003		13.5518	13.5518	4.7000e-004	2.1500e-003	14.2036
Vendor	2.3200e-003	0.0828	0.0270	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1300e-003		31.8378	31.8378	7.0000e-004	4.6800e-003	33.2496
Worker	0.0627	0.0427	0.4778	1.4400e-003	0.1780	8.5000e-004	0.1788	0.0472	7.8000e-004	0.0480		145.5431	145.5431	4.2100e-003	4.2700e-003	146.9218
Total	0.0656	0.1592	0.5113	1.8600e-003	0.1907	1.5900e-003	0.1923	0.0508	1.4800e-003	0.0523		190.9327	190.9327	5.3800e-003	0.0111	194.3750

McMillan Project - San Luis Obispo County, Winter

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

3.5 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7320	6.5013	8.2001	0.0133		0.3102	0.3102		0.2900	0.2900	0.0000	1,212.9668	1,212.9668	0.3479		1,221.6649
Paving	0.0550					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7871	6.5013	8.2001	0.0133		0.3102	0.3102		0.2900	0.2900	0.0000	1,212.9668	1,212.9668	0.3479		1,221.6649

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	5.2000e-004	0.0337	6.5100e-003	1.2000e-004	3.5000e-003	2.7000e-004	3.7600e-003	9.6000e-004	2.5000e-004	1.2100e-003		13.5518	13.5518	4.7000e-004	2.1500e-003	14.2036
Vendor	2.3200e-003	0.0828	0.0270	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1300e-003		31.8378	31.8378	7.0000e-004	4.6800e-003	33.2496
Worker	0.0627	0.0427	0.4778	1.4400e-003	0.1780	8.5000e-004	0.1788	0.0472	7.8000e-004	0.0480		145.5431	145.5431	4.2100e-003	4.2700e-003	146.9218
Total	0.0656	0.1592	0.5113	1.8600e-003	0.1907	1.5900e-003	0.1923	0.0508	1.4800e-003	0.0523		190.9327	190.9327	5.3800e-003	0.0111	194.3750

McMillan Project - San Luis Obispo County, Winter

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

3.6 Architectural Coating - 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					
Archit. Coating	39.3947					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	39.6503	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253

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	1.0500e-003	0.0674	0.0130	2.5000e-004	6.9900e-003	5.3000e-004	7.5200e-003	1.9200e-003	5.1000e-004	2.4200e-003		27.1036	27.1036	9.4000e-004	4.3000e-003	28.4071
Vendor	2.3200e-003	0.0828	0.0270	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1300e-003		31.8378	31.8378	7.0000e-004	4.6800e-003	33.2496
Worker	6.9700e-003	4.7400e-003	0.0531	1.6000e-004	0.0198	9.0000e-005	0.0199	5.2400e-003	9.0000e-005	5.3300e-003		16.1715	16.1715	4.7000e-004	4.7000e-004	16.3247
Total	0.0103	0.1549	0.0931	7.1000e-004	0.0361	1.0900e-003	0.0372	9.8400e-003	1.0500e-003	0.0109		75.1128	75.1128	2.1100e-003	9.4500e-003	77.9814

McMillan Project - San Luis Obispo County, Winter

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

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.3947					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	39.6503	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253

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	1.0500e-003	0.0674	0.0130	2.5000e-004	6.9900e-003	5.3000e-004	7.5200e-003	1.9200e-003	5.1000e-004	2.4200e-003		27.1036	27.1036	9.4000e-004	4.3000e-003	28.4071
Vendor	2.3200e-003	0.0828	0.0270	3.0000e-004	9.2900e-003	4.7000e-004	9.7600e-003	2.6800e-003	4.5000e-004	3.1300e-003		31.8378	31.8378	7.0000e-004	4.6800e-003	33.2496
Worker	6.9700e-003	4.7400e-003	0.0531	1.6000e-004	0.0198	9.0000e-005	0.0199	5.2400e-003	9.0000e-005	5.3300e-003		16.1715	16.1715	4.7000e-004	4.7000e-004	16.3247
Total	0.0103	0.1549	0.0931	7.1000e-004	0.0361	1.0900e-003	0.0372	9.8400e-003	1.0500e-003	0.0109		75.1128	75.1128	2.1100e-003	9.4500e-003	77.9814

McMillan Project - San Luis Obispo County, Winter

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	0.1625	0.2544	1.5593	2.9300e-003	0.3025	2.9200e-003	0.3054	0.0807	2.7500e-003	0.0835		298.4899	298.4899	0.0203	0.0158	303.7018
Unmitigated	0.1625	0.2544	1.5593	2.9300e-003	0.3025	2.9200e-003	0.3054	0.0807	2.7500e-003	0.0835		298.4899	298.4899	0.0203	0.0158	303.7018

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	43.42	43.42	43.42	143,293	143,293
Total	43.42	43.42	43.42	143,293	143,293

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
Other Asphalt Surfaces	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Parking Lot	13.00	5.00	5.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	13.00	5.00	5.00	59.00	0.00	41.00	92	5	3

McMillan Project - San Luis Obispo County, Winter

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.480413	0.056178	0.203888	0.151644	0.040330	0.009776	0.008210	0.005953	0.000975	0.000369	0.033870	0.001035	0.007358
Parking Lot	0.480413	0.056178	0.203888	0.151644	0.040330	0.009776	0.008210	0.005953	0.000975	0.000369	0.033870	0.001035	0.007358
Unrefrigerated Warehouse-No Rail	0.480413	0.056178	0.203888	0.151644	0.040330	0.009776	0.008210	0.005953	0.000975	0.000369	0.033870	0.001035	0.007358

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	8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241
NaturalGas Unmitigated	8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241

McMillan Project - San Luis Obispo County, Winter

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					
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	77.9419	8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241
Total		8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241

McMillan Project - San Luis Obispo County, Winter

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.0779419	8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241
Total		8.4000e-004	7.6400e-003	6.4200e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004		9.1696	9.1696	1.8000e-004	1.7000e-004	9.2241

6.0 Area Detail

6.1 Mitigation Measures Area

McMillan Project - San Luis Obispo County, Winter

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					
Mitigated	0.2344	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5200e-003	5.5200e-003	1.0000e-005		5.8800e-003
Unmitigated	0.2344	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5200e-003	5.5200e-003	1.0000e-005		5.8800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0540					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1802					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5200e-003	5.5200e-003	1.0000e-005		5.8800e-003
Total	0.2344	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.5200e-003	5.5200e-003	1.0000e-005		5.8800e-003

McMillan Project - San Luis Obispo County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0540					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1802					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.5200e-003	5.5200e-003	1.0000e-005	5.8800e-003
Total	0.2344	2.0000e-005	2.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			5.5200e-003	5.5200e-003	1.0000e-005	5.8800e-003

7.0 Water Detail

7.1 Mitigation Measures Water

McMillan Project - San Luis Obispo County, Winter

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

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
