

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Summer

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

**Twentynine Palms Centralized Sewer System
Mojave Desert Air Basin, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	5.00	1000sqft	4.50	5,000.00	0
Other Asphalt Surfaces	21.00	Acre	21.00	914,760.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Installment of 32.15 miles/20 AC of pipeline, 4.5 acre WWTP with 5,000 SF O&M building. 1 AC effluent discharge site, 0.1 AC lift station.

Construction Phase - Assumes the entire project will require a 2 year buildout with multiple segments being constructed simultaneously.

Grading - Assumes volume of pipelines will be exported off site, a total of approximately 3,000 CY.

Construction Off-road Equipment Mitigation - Dust control measures for unpaved roads and exposed areas.

Vehicle Trips - Assumes 15 daily trips for WWTP.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	NumDays	440.00	60.00
tblConstructionPhase	NumDays	45.00	478.00

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tblConstructionPhase	NumDays	35.00	512.00
tblGrading	AcresOfGrading	1,434.00	135.00
tblGrading	MaterialExported	0.00	3,000.00
tblLandUse	LotAcreage	0.11	4.50
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	WD_TR	4.96	3.00

2.0 Emissions Summary

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2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	42.1343	55.0343	74.8497	0.1839	12.6400	2.1451	14.7851	5.0394	1.9860	7.0254	0.0000	18,163.4297	18,163.4297	3.3617	0.4903	18,393.5866
2026	4.0556	36.6743	42.1280	0.0889	6.7833	1.5523	8.3356	3.4650	1.4281	4.8931	0.0000	8,628.3572	8,628.3572	2.6639	0.0147	8,699.3238
Maximum	42.1343	55.0343	74.8497	0.1839	12.6400	2.1451	14.7851	5.0394	1.9860	7.0254	0.0000	18,163.4297	18,163.4297	3.3617	0.4903	18,393.5866

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	42.1343	55.0343	74.8497	0.1839	9.1627	2.1451	11.3077	3.2009	1.9860	5.1869	0.0000	18,163.4297	18,163.4297	3.3617	0.4903	18,393.5866
2026	4.0556	36.6743	42.1280	0.0889	3.3059	1.5523	4.8582	1.6266	1.4281	3.0547	0.0000	8,628.3572	8,628.3572	2.6639	0.0147	8,699.3238
Maximum	42.1343	55.0343	74.8497	0.1839	9.1627	2.1451	11.3077	3.2009	1.9860	5.1869	0.0000	18,163.4297	18,163.4297	3.3617	0.4903	18,393.5866

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6372	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003
Energy	4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128
Mobile	0.0884	0.1156	0.8348	1.8900e-003	0.2040	1.5400e-003	0.2055	0.0544	1.4500e-003	0.0558		192.8442	192.8442	9.2200e-003	9.0300e-003	195.7649
Total	0.7304	0.1591	0.8739	2.1500e-003	0.2040	4.8500e-003	0.2088	0.0544	4.7600e-003	0.0592		244.9530	244.9530	0.0102	9.9900e-003	248.1838

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	0.6372	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003
Energy	4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128
Mobile	0.0884	0.1156	0.8348	1.8900e-003	0.2040	1.5400e-003	0.2055	0.0544	1.4500e-003	0.0558		192.8442	192.8442	9.2200e-003	9.0300e-003	195.7649
Total	0.7304	0.1591	0.8739	2.1500e-003	0.2040	4.8500e-003	0.2088	0.0544	4.7600e-003	0.0592		244.9530	244.9530	0.0102	9.9900e-003	248.1838

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	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	Grading	Grading	1/1/2025	11/1/2026	5	478	
2	Building Construction	Building Construction	1/1/2025	3/25/2025	5	60	
3	Paving	Paving	1/15/2025	12/31/2026	5	512	
4	Architectural Coating	Architectural Coating	3/26/2025	4/22/2025	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 135

Acres of Paving: 21

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,500; Non-Residential Outdoor: 2,500; Striped Parking Area: 54,886 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20

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Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	375.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	386.00	151.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	77.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

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3.2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3225	0.0000	6.3225	3.3427	0.0000	3.3427			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.3225	1.1309	7.4534	3.3427	1.0404	4.3831		6,008.2814	6,008.2814	1.9432		6,056.8614

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	2.0200e-003	0.0808	0.0240	4.2000e-004	0.0138	1.0500e-003	0.0148	3.7800e-003	1.0100e-003	4.7800e-003		44.5455	44.5455	1.2000e-004	7.0000e-003	46.6350
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0793	0.0445	0.7331	2.1600e-003	0.2555	1.0900e-003	0.2566	0.0678	1.0000e-003	0.0688		218.2767	218.2767	4.3500e-003	4.7800e-003	219.8096
Total	0.0813	0.1253	0.7571	2.5800e-003	0.2692	2.1400e-003	0.2714	0.0715	2.0100e-003	0.0735		262.8222	262.8222	4.4700e-003	0.0118	266.4446

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3.2 Grading - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8451	0.0000	2.8451	1.5042	0.0000	1.5042			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	2.8451	1.1309	3.9760	1.5042	1.0404	2.5446	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	2.0200e-003	0.0808	0.0240	4.2000e-004	0.0138	1.0500e-003	0.0148	3.7800e-003	1.0100e-003	4.7800e-003		44.5455	44.5455	1.2000e-004	7.0000e-003	46.6350
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0793	0.0445	0.7331	2.1600e-003	0.2555	1.0900e-003	0.2566	0.0678	1.0000e-003	0.0688		218.2767	218.2767	4.3500e-003	4.7800e-003	219.8096
Total	0.0813	0.1253	0.7571	2.5800e-003	0.2692	2.1400e-003	0.2714	0.0715	2.0100e-003	0.0735		262.8222	262.8222	4.4700e-003	0.0118	266.4446

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3.2 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3225	0.0000	6.3225	3.3427	0.0000	3.3427			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.3225	1.1309	7.4534	3.3427	1.0404	4.3831		6,008.2814	6,008.2814	1.9432		6,056.8614

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	2.0100e-003	0.0798	0.0240	4.1000e-004	0.0138	1.0400e-003	0.0148	3.7800e-003	1.0000e-003	4.7700e-003		43.4300	43.4300	1.2000e-004	6.8300e-003	45.4672
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0741	0.0400	0.6828	2.0900e-003	0.2555	1.0300e-003	0.2565	0.0678	9.5000e-004	0.0687		211.3718	211.3718	3.9200e-003	4.4800e-003	212.8042
Total	0.0761	0.1198	0.7068	2.5000e-003	0.2692	2.0700e-003	0.2713	0.0715	1.9500e-003	0.0735		254.8018	254.8018	4.0400e-003	0.0113	258.2714

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3.2 Grading - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8451	0.0000	2.8451	1.5042	0.0000	1.5042			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	2.8451	1.1309	3.9760	1.5042	1.0404	2.5446	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	2.0100e-003	0.0798	0.0240	4.1000e-004	0.0138	1.0400e-003	0.0148	3.7800e-003	1.0000e-003	4.7700e-003		43.4300	43.4300	1.2000e-004	6.8300e-003	45.4672
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0741	0.0400	0.6828	2.0900e-003	0.2555	1.0300e-003	0.2565	0.0678	9.5000e-004	0.0687		211.3718	211.3718	3.9200e-003	4.4800e-003	212.8042
Total	0.0761	0.1198	0.7068	2.5000e-003	0.2692	2.0700e-003	0.2713	0.0715	1.9500e-003	0.0735		254.8018	254.8018	4.0400e-003	0.0113	258.2714

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3.3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2027	5.0218	2.3993	0.0262	0.9263	0.0442	0.9705	0.2668	0.0423	0.3091		2,752.658 9	2,752.658 9	0.0122	0.3827	2,867.012 2
Worker	1.5309	0.8595	14.1497	0.0417	4.9304	0.0210	4.9514	1.3075	0.0193	1.3268		4,212.740 2	4,212.740 2	0.0839	0.0922	4,242.325 3
Total	1.7336	5.8814	16.5490	0.0678	5.8567	0.0651	5.9219	1.5743	0.0615	1.6359		6,965.399 0	6,965.399 0	0.0961	0.4750	7,109.337 5

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3.3 Building Construction - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2027	5.0218	2.3993	0.0262	0.9263	0.0442	0.9705	0.2668	0.0423	0.3091		2,752.658 9	2,752.658 9	0.0122	0.3827	2,867.012 2
Worker	1.5309	0.8595	14.1497	0.0417	4.9304	0.0210	4.9514	1.3075	0.0193	1.3268		4,212.740 2	4,212.740 2	0.0839	0.0922	4,242.325 3
Total	1.7336	5.8814	16.5490	0.0678	5.8567	0.0651	5.9219	1.5743	0.0615	1.6359		6,965.399 0	6,965.399 0	0.0961	0.4750	7,109.337 5

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Summer

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

3.4 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.1075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0226	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0595	0.0334	0.5499	1.6200e-003	0.1916	8.1000e-004	0.1924	0.0508	7.5000e-004	0.0516		163.7075	163.7075	3.2600e-003	3.5800e-003	164.8572
Total	0.0595	0.0334	0.5499	1.6200e-003	0.1916	8.1000e-004	0.1924	0.0508	7.5000e-004	0.0516		163.7075	163.7075	3.2600e-003	3.5800e-003	164.8572

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Summer

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

3.4 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.1075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0226	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0595	0.0334	0.5499	1.6200e-003	0.1916	8.1000e-004	0.1924	0.0508	7.5000e-004	0.0516		163.7075	163.7075	3.2600e-003	3.5800e-003	164.8572
Total	0.0595	0.0334	0.5499	1.6200e-003	0.1916	8.1000e-004	0.1924	0.0508	7.5000e-004	0.0516		163.7075	163.7075	3.2600e-003	3.5800e-003	164.8572

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Summer

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

3.4 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.1075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0226	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0556	0.0300	0.5121	1.5700e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515		158.5288	158.5288	2.9400e-003	3.3600e-003	159.6032
Total	0.0556	0.0300	0.5121	1.5700e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515		158.5288	158.5288	2.9400e-003	3.3600e-003	159.6032

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Summer

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

3.4 Paving - 2026

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.1075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0226	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0556	0.0300	0.5121	1.5700e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515		158.5288	158.5288	2.9400e-003	3.3600e-003	159.6032
Total	0.0556	0.0300	0.5121	1.5700e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515		158.5288	158.5288	2.9400e-003	3.3600e-003	159.6032

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Summer

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

3.5 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5933					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	37.7642	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3054	0.1715	2.8226	8.3100e-003	0.9835	4.1800e-003	0.9877	0.2608	3.8500e-003	0.2647		840.3653	840.3653	0.0168	0.0184	846.2670
Total	0.3054	0.1715	2.8226	8.3100e-003	0.9835	4.1800e-003	0.9877	0.2608	3.8500e-003	0.2647		840.3653	840.3653	0.0168	0.0184	846.2670

Twenty-nine Palms Centralized Sewer System - Mojave Desert Air Basin, Summer

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

3.5 Architectural Coating - 2025

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	37.5933					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	37.7642	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3054	0.1715	2.8226	8.3100e-003	0.9835	4.1800e-003	0.9877	0.2608	3.8500e-003	0.2647		840.3653	840.3653	0.0168	0.0184	846.2670
Total	0.3054	0.1715	2.8226	8.3100e-003	0.9835	4.1800e-003	0.9877	0.2608	3.8500e-003	0.2647		840.3653	840.3653	0.0168	0.0184	846.2670

Twenty-nine Palms Centralized Sewer System - Mojave Desert Air Basin, 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	0.0884	0.1156	0.8348	1.8900e-003	0.2040	1.5400e-003	0.2055	0.0544	1.4500e-003	0.0558		192.8442	192.8442	9.2200e-003	9.0300e-003	195.7649
Unmitigated	0.0884	0.1156	0.8348	1.8900e-003	0.2040	1.5400e-003	0.2055	0.0544	1.4500e-003	0.0558		192.8442	192.8442	9.2200e-003	9.0300e-003	195.7649

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	15.00	9.95	25.00	60,684	60,684
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	15.00	9.95	25.00	60,684	60,684

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.541707	0.056721	0.172779	0.128952	0.027056	0.007396	0.007579	0.023613	0.000522	0.000189	0.027469	0.001142	0.004876
Other Asphalt Surfaces	0.541707	0.056721	0.172779	0.128952	0.027056	0.007396	0.007579	0.023613	0.000522	0.000189	0.027469	0.001142	0.004876

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	4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128
NaturalGas Unmitigated	4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128

Twenty-nine Palms Centralized Sewer System - Mojave Desert Air Basin, 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					
General Light Industry	442.877	4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128
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
Total		4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.442877	4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128
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
Total		4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128

6.0 Area Detail

Twenty-nine Palms Centralized Sewer System - Mojave Desert Air Basin, Summer

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6372	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003
Unmitigated	0.6372	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2060					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003
Total	0.6372	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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	0.2060					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003
Total	0.6372	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

**Twentynine Palms Centralized Sewer System
Mojave Desert Air Basin, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	5.00	1000sqft	4.50	5,000.00	0
Other Asphalt Surfaces	21.00	Acre	21.00	914,760.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Installment of 32.15 miles/20 AC of pipeline, 4.5 acre WWTP with 5,000 SF O&M building. 1 AC effluent discharge site, 0.1 AC lift station.

Construction Phase - Assumes the entire project will require a 2 year buildout with multiple segments being constructed simultaneously.

Grading - Assumes volume of pipelines will be exported off site, a total of approximately 3,000 CY.

Construction Off-road Equipment Mitigation - Dust control measures for unpaved roads and exposed areas.

Vehicle Trips - Assumes 15 daily trips for WWTP.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	NumDays	440.00	60.00
tblConstructionPhase	NumDays	45.00	478.00

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

tblConstructionPhase	NumDays	35.00	512.00
tblGrading	AcresOfGrading	1,434.00	135.00
tblGrading	MaterialExported	0.00	3,000.00
tblLandUse	LotAcreage	0.11	4.50
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	WD_TR	4.96	3.00

2.0 Emissions Summary

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	42.1075	55.3886	71.6081	0.1789	12.6400	2.1452	14.7852	5.0394	1.9862	7.0255	0.0000	17,664.22 43	17,664.22 43	3.3600	0.4939	17,895.40 40
2026	4.0480	36.6813	41.8717	0.0885	6.7833	1.5523	8.3356	3.4650	1.4281	4.8931	0.0000	8,587.628 8	8,587.628 8	2.6638	0.0148	8,658.640 6
Maximum	42.1075	55.3886	71.6081	0.1789	12.6400	2.1452	14.7852	5.0394	1.9862	7.0255	0.0000	17,664.22 43	17,664.22 43	3.3600	0.4939	17,895.40 40

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	42.1075	55.3886	71.6081	0.1789	9.1627	2.1452	11.3079	3.2009	1.9862	5.1870	0.0000	17,664.22 43	17,664.22 43	3.3600	0.4939	17,895.40 40
2026	4.0480	36.6813	41.8717	0.0885	3.3059	1.5523	4.8582	1.6266	1.4281	3.0547	0.0000	8,587.628 7	8,587.628 7	2.6638	0.0148	8,658.640 6
Maximum	42.1075	55.3886	71.6081	0.1789	9.1627	2.1452	11.3079	3.2009	1.9862	5.1870	0.0000	17,664.22 43	17,664.22 43	3.3600	0.4939	17,895.40 40

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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	0.6372	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003
Energy	4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128
Mobile	0.0742	0.1230	0.7314	1.7400e-003	0.2040	1.5400e-003	0.2055	0.0544	1.4500e-003	0.0558		176.9467	176.9467	9.4000e-003	9.2100e-003	179.9268
Total	0.7163	0.1664	0.7705	2.0000e-003	0.2040	4.8500e-003	0.2088	0.0544	4.7600e-003	0.0592		229.0555	229.0555	0.0104	0.0102	232.3457

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	0.6372	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003
Energy	4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128
Mobile	0.0742	0.1230	0.7314	1.7400e-003	0.2040	1.5400e-003	0.2055	0.0544	1.4500e-003	0.0558		176.9467	176.9467	9.4000e-003	9.2100e-003	179.9268
Total	0.7163	0.1664	0.7705	2.0000e-003	0.2040	4.8500e-003	0.2088	0.0544	4.7600e-003	0.0592		229.0555	229.0555	0.0104	0.0102	232.3457

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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	Grading	Grading	1/1/2025	11/1/2026	5	478	
2	Building Construction	Building Construction	1/1/2025	3/25/2025	5	60	
3	Paving	Paving	1/15/2025	12/31/2026	5	512	
4	Architectural Coating	Architectural Coating	3/26/2025	4/22/2025	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 135

Acres of Paving: 21

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,500; Non-Residential Outdoor: 2,500; Striped Parking Area: 54,886 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	375.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	386.00	151.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	77.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

3.2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3225	0.0000	6.3225	3.3427	0.0000	3.3427			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	6.3225	1.1309	7.4534	3.3427	1.0404	4.3831		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

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	1.8400e-003	0.0856	0.0246	4.2000e-004	0.0138	1.0600e-003	0.0148	3.7800e-003	1.0100e-003	4.7900e-003		44.6346	44.6346	1.1000e-004	7.0200e-003	46.7280
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0746	0.0460	0.5750	1.9200e-003	0.2555	1.0900e-003	0.2566	0.0678	1.0000e-003	0.0688		194.1483	194.1483	4.3000e-003	4.8700e-003	195.7065
Total	0.0764	0.1316	0.5996	2.3400e-003	0.2692	2.1500e-003	0.2714	0.0715	2.0100e-003	0.0735		238.7829	238.7829	4.4100e-003	0.0119	242.4345

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

3.2 Grading - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8451	0.0000	2.8451	1.5042	0.0000	1.5042			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	2.8451	1.1309	3.9760	1.5042	1.0404	2.5446	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	1.8400e-003	0.0856	0.0246	4.2000e-004	0.0138	1.0600e-003	0.0148	3.7800e-003	1.0100e-003	4.7900e-003		44.6346	44.6346	1.1000e-004	7.0200e-003	46.7280
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0746	0.0460	0.5750	1.9200e-003	0.2555	1.0900e-003	0.2566	0.0678	1.0000e-003	0.0688		194.1483	194.1483	4.3000e-003	4.8700e-003	195.7065
Total	0.0764	0.1316	0.5996	2.3400e-003	0.2692	2.1500e-003	0.2714	0.0715	2.0100e-003	0.0735		238.7829	238.7829	4.4100e-003	0.0119	242.4345

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

3.2 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3225	0.0000	6.3225	3.3427	0.0000	3.3427			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.3225	1.1309	7.4534	3.3427	1.0404	4.3831		6,008.2814	6,008.2814	1.9432		6,056.8614

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	1.8400e-003	0.0845	0.0245	4.1000e-004	0.0138	1.0400e-003	0.0148	3.7800e-003	1.0000e-003	4.7700e-003		43.5173	43.5173	1.1000e-004	6.8400e-003	45.5584
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0699	0.0413	0.5361	1.8600e-003	0.2555	1.0300e-003	0.2565	0.0678	9.5000e-004	0.0687		188.0485	188.0485	3.8900e-003	4.5600e-003	189.5046
Total	0.0717	0.1258	0.5606	2.2700e-003	0.2692	2.0700e-003	0.2713	0.0715	1.9500e-003	0.0735		231.5658	231.5658	4.0000e-003	0.0114	235.0630

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

3.2 Grading - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8451	0.0000	2.8451	1.5042	0.0000	1.5042			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	2.8451	1.1309	3.9760	1.5042	1.0404	2.5446	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	1.8400e-003	0.0845	0.0245	4.1000e-004	0.0138	1.0400e-003	0.0148	3.7800e-003	1.0000e-003	4.7700e-003		43.5173	43.5173	1.1000e-004	6.8400e-003	45.5584
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0699	0.0413	0.5361	1.8600e-003	0.2555	1.0300e-003	0.2565	0.0678	9.5000e-004	0.0687		188.0485	188.0485	3.8900e-003	4.5600e-003	189.5046
Total	0.0717	0.1258	0.5606	2.2700e-003	0.2692	2.0700e-003	0.2713	0.0715	1.9500e-003	0.0735		231.5658	231.5658	4.0000e-003	0.0114	235.0630

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

3.3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1871	5.3406	2.4852	0.0262	0.9263	0.0443	0.9707	0.2668	0.0424	0.3092		2,761.266 4	2,761.266 4	0.0115	0.3844	2,876.107 1
Worker	1.4393	0.8878	11.0983	0.0371	4.9304	0.0210	4.9514	1.3075	0.0193	1.3268		3,747.062 9	3,747.062 9	0.0830	0.0940	3,777.135 2
Total	1.6264	6.2284	13.5835	0.0633	5.8567	0.0653	5.9220	1.5743	0.0617	1.6360		6,508.329 2	6,508.329 2	0.0945	0.4784	6,653.242 3

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

3.3 Building Construction - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1871	5.3406	2.4852	0.0262	0.9263	0.0443	0.9707	0.2668	0.0424	0.3092		2,761.266 4	2,761.266 4	0.0115	0.3844	2,876.107 1
Worker	1.4393	0.8878	11.0983	0.0371	4.9304	0.0210	4.9514	1.3075	0.0193	1.3268		3,747.062 9	3,747.062 9	0.0830	0.0940	3,777.135 2
Total	1.6264	6.2284	13.5835	0.0633	5.8567	0.0653	5.9220	1.5743	0.0617	1.6360		6,508.329 2	6,508.329 2	0.0945	0.4784	6,653.242 3

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

3.4 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.1075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0226	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0345	0.4313	1.4400e-003	0.1916	8.1000e-004	0.1924	0.0508	7.5000e-004	0.0516		145.6113	145.6113	3.2200e-003	3.6500e-003	146.7799
Total	0.0559	0.0345	0.4313	1.4400e-003	0.1916	8.1000e-004	0.1924	0.0508	7.5000e-004	0.0516		145.6113	145.6113	3.2200e-003	3.6500e-003	146.7799

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

3.4 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.1075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0226	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0345	0.4313	1.4400e-003	0.1916	8.1000e-004	0.1924	0.0508	7.5000e-004	0.0516		145.6113	145.6113	3.2200e-003	3.6500e-003	146.7799
Total	0.0559	0.0345	0.4313	1.4400e-003	0.1916	8.1000e-004	0.1924	0.0508	7.5000e-004	0.0516		145.6113	145.6113	3.2200e-003	3.6500e-003	146.7799

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

3.4 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.1075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0226	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0524	0.0310	0.4021	1.4000e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515		141.0364	141.0364	2.9200e-003	3.4200e-003	142.1284
Total	0.0524	0.0310	0.4021	1.4000e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515		141.0364	141.0364	2.9200e-003	3.4200e-003	142.1284

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

3.4 Paving - 2026

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.1075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0226	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0524	0.0310	0.4021	1.4000e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515		141.0364	141.0364	2.9200e-003	3.4200e-003	142.1284
Total	0.0524	0.0310	0.4021	1.4000e-003	0.1916	7.7000e-004	0.1924	0.0508	7.1000e-004	0.0515		141.0364	141.0364	2.9200e-003	3.4200e-003	142.1284

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

3.5 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5933					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	37.7642	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2871	0.1771	2.2139	7.3900e-003	0.9835	4.1800e-003	0.9877	0.2608	3.8500e-003	0.2647		747.4711	747.4711	0.0166	0.0187	753.4700
Total	0.2871	0.1771	2.2139	7.3900e-003	0.9835	4.1800e-003	0.9877	0.2608	3.8500e-003	0.2647		747.4711	747.4711	0.0166	0.0187	753.4700

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

3.5 Architectural Coating - 2025

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	37.5933					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	37.7642	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2871	0.1771	2.2139	7.3900e-003	0.9835	4.1800e-003	0.9877	0.2608	3.8500e-003	0.2647		747.4711	747.4711	0.0166	0.0187	753.4700
Total	0.2871	0.1771	2.2139	7.3900e-003	0.9835	4.1800e-003	0.9877	0.2608	3.8500e-003	0.2647		747.4711	747.4711	0.0166	0.0187	753.4700

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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	0.0742	0.1230	0.7314	1.7400e-003	0.2040	1.5400e-003	0.2055	0.0544	1.4500e-003	0.0558		176.9467	176.9467	9.4000e-003	9.2100e-003	179.9268
Unmitigated	0.0742	0.1230	0.7314	1.7400e-003	0.2040	1.5400e-003	0.2055	0.0544	1.4500e-003	0.0558		176.9467	176.9467	9.4000e-003	9.2100e-003	179.9268

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	15.00	9.95	25.00	60,684	60,684
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	15.00	9.95	25.00	60,684	60,684

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.541707	0.056721	0.172779	0.128952	0.027056	0.007396	0.007579	0.023613	0.000522	0.000189	0.027469	0.001142	0.004876
Other Asphalt Surfaces	0.541707	0.056721	0.172779	0.128952	0.027056	0.007396	0.007579	0.023613	0.000522	0.000189	0.027469	0.001142	0.004876

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	4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128
NaturalGas Unmitigated	4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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					
General Light Industry	442.877	4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128
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
Total		4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.442877	4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128
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
Total		4.7800e-003	0.0434	0.0365	2.6000e-004		3.3000e-003	3.3000e-003		3.3000e-003	3.3000e-003		52.1031	52.1031	1.0000e-003	9.6000e-004	52.4128

6.0 Area Detail

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Winter

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6372	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003
Unmitigated	0.6372	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2060					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003
Total	0.6372	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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	0.2060					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4000e-004	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003
Total	0.6372	2.0000e-005	2.6500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6900e-003	5.6900e-003	1.0000e-005		6.0600e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

**Twentynine Palms Centralized Sewer System
Mojave Desert Air Basin, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	5.00	1000sqft	4.50	5,000.00	0
Other Asphalt Surfaces	21.00	Acre	21.00	914,760.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Installment of 32.15 miles/20 AC of pipeline, 4.5 acre WWTP with 5,000 SF O&M building. 1 AC effluent discharge site, 0.1 AC lift station.

Construction Phase - Assumes the entire project will require a 2 year buildout with multiple segments being constructed simultaneously.

Grading - Assumes volume of pipelines will be exported off site, a total of approximately 3,000 CY.

Construction Off-road Equipment Mitigation - Dust control measures for unpaved roads and exposed areas.

Vehicle Trips - Assumes 15 daily trips for WWTP.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	NumDays	440.00	60.00
tblConstructionPhase	NumDays	45.00	478.00

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

tblConstructionPhase	NumDays	35.00	512.00
tblGrading	AcresOfGrading	1,434.00	135.00
tblGrading	MaterialExported	0.00	3,000.00
tblLandUse	LotAcreage	0.11	4.50
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	WD_TR	4.96	3.00

2.0 Emissions Summary

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	0.9895	5.3202	6.3624	0.0143	1.0980	0.2188	1.3168	0.5042	0.2017	0.7060	0.0000	1,267.4477	1,267.4477	0.3315	0.0152	1,280.2520
2026	0.4617	4.1699	4.8807	0.0102	0.7784	0.1776	0.9561	0.3811	0.1634	0.5445	0.0000	893.1132	893.1132	0.2765	1.5600e-003	900.4922
Maximum	0.9895	5.3202	6.3624	0.0143	1.0980	0.2188	1.3168	0.5042	0.2017	0.7060	0.0000	1,267.4477	1,267.4477	0.3315	0.0152	1,280.2520

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	0.9895	5.3202	6.3624	0.0143	0.6263	0.2188	0.8451	0.2624	0.2017	0.4641	0.0000	1,267.4465	1,267.4465	0.3315	0.0152	1,280.2508
2026	0.4617	4.1699	4.8807	0.0102	0.3796	0.1776	0.5572	0.1793	0.1634	0.3427	0.0000	893.1122	893.1122	0.2765	1.5600e-003	900.4912
Maximum	0.9895	5.3202	6.3624	0.0143	0.6263	0.2188	0.8451	0.2624	0.2017	0.4641	0.0000	1,267.4465	1,267.4465	0.3315	0.0152	1,280.2508

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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
Percent Reduction	0.00	0.00	0.00	0.00	46.40	0.00	38.30	50.12	0.00	35.48	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
8	10-2-2024	1-1-2025	0.0188	0.0188
9	1-2-2025	4-1-2025	2.0062	2.0062
10	4-2-2025	7-1-2025	1.6197	1.6197
11	7-2-2025	10-1-2025	1.3389	1.3389
12	10-2-2025	1-1-2026	1.3388	1.3388
13	1-2-2026	4-1-2026	1.3092	1.3092
14	4-2-2026	7-1-2026	1.3237	1.3237
15	7-2-2026	9-30-2026	1.3237	1.3237
		Highest	2.0062	2.0062

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1163	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004
Energy	8.7000e-004	7.9200e-003	6.6600e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	17.4226	17.4226	9.1000e-004	2.5000e-004	17.5192
Mobile	8.4800e-003	0.0143	0.0885	2.0000e-004	0.0229	1.8000e-004	0.0231	6.1200e-003	1.7000e-004	6.2800e-003	0.0000	18.7057	18.7057	9.9000e-004	9.7000e-004	19.0199
Waste						0.0000	0.0000		0.0000	0.0000	1.2585	0.0000	1.2585	0.0744	0.0000	3.1180
Water						0.0000	0.0000		0.0000	0.0000	0.3668	2.6700	3.0369	0.0379	9.2000e-004	4.2577
Total	0.1256	0.0223	0.0954	2.5000e-004	0.0229	7.8000e-004	0.0237	6.1200e-003	7.7000e-004	6.8800e-003	1.6254	38.7988	40.4242	0.1142	2.1400e-003	43.9153

Twenty-nine Palms Centralized Sewer System - Mojave Desert Air Basin, 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	0.1163	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004
Energy	8.7000e-004	7.9200e-003	6.6600e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	17.4226	17.4226	9.1000e-004	2.5000e-004	17.5192
Mobile	8.4800e-003	0.0143	0.0885	2.0000e-004	0.0229	1.8000e-004	0.0231	6.1200e-003	1.7000e-004	6.2800e-003	0.0000	18.7057	18.7057	9.9000e-004	9.7000e-004	19.0199
Waste						0.0000	0.0000		0.0000	0.0000	1.2585	0.0000	1.2585	0.0744	0.0000	3.1180
Water						0.0000	0.0000		0.0000	0.0000	0.3668	2.6700	3.0369	0.0379	9.2000e-004	4.2577
Total	0.1256	0.0223	0.0954	2.5000e-004	0.0229	7.8000e-004	0.0237	6.1200e-003	7.7000e-004	6.8800e-003	1.6254	38.7988	40.4242	0.1142	2.1400e-003	43.9153

	ROG	NOx	CO	SO2	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	Grading	Grading	1/1/2025	11/1/2026	5	478	
2	Building Construction	Building Construction	1/1/2025	3/25/2025	5	60	
3	Paving	Paving	1/15/2025	12/31/2026	5	512	

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

4	Architectural Coating	Architectural Coating	3/26/2025	4/22/2025	5	20
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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 135

Acres of Paving: 21

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 7,500; Non-Residential Outdoor: 2,500; Striped Parking Area: 54,886 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	375.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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

Building Construction	9	386.00	151.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	77.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8577	0.0000	0.8577	0.4398	0.0000	0.4398	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3786	3.6466	3.4362	8.1000e-003		0.1476	0.1476		0.1358	0.1358	0.0000	711.3061	711.3061	0.2301	0.0000	717.0573
Total	0.3786	3.6466	3.4362	8.1000e-003	0.8577	0.1476	1.0053	0.4398	0.1358	0.5755	0.0000	711.3061	711.3061	0.2301	0.0000	717.0573

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

3.2 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.5000e-004	0.0112	3.1600e-003	5.0000e-005	1.7700e-003	1.4000e-004	1.9100e-003	4.9000e-004	1.3000e-004	6.2000e-004	0.0000	5.2781	5.2781	1.0000e-005	8.3000e-004	5.5256
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.9600e-003	6.3900e-003	0.0805	2.6000e-004	0.0327	1.4000e-004	0.0329	8.6900e-003	1.3000e-004	8.8200e-003	0.0000	23.6289	23.6289	5.2000e-004	6.0000e-004	23.8213
Total	9.2100e-003	0.0176	0.0837	3.1000e-004	0.0345	2.8000e-004	0.0348	9.1800e-003	2.6000e-004	9.4400e-003	0.0000	28.9070	28.9070	5.3000e-004	1.4300e-003	29.3469

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					0.3860	0.0000	0.3860	0.1979	0.0000	0.1979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3786	3.6465	3.4362	8.1000e-003		0.1476	0.1476		0.1358	0.1358	0.0000	711.3052	711.3052	0.2301	0.0000	717.0565
Total	0.3786	3.6465	3.4362	8.1000e-003	0.3860	0.1476	0.5335	0.1979	0.1358	0.3337	0.0000	711.3052	711.3052	0.2301	0.0000	717.0565

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

3.2 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.5000e-004	0.0112	3.1600e-003	5.0000e-005	1.7700e-003	1.4000e-004	1.9100e-003	4.9000e-004	1.3000e-004	6.2000e-004	0.0000	5.2781	5.2781	1.0000e-005	8.3000e-004	5.5256
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.9600e-003	6.3900e-003	0.0805	2.6000e-004	0.0327	1.4000e-004	0.0329	8.6900e-003	1.3000e-004	8.8200e-003	0.0000	23.6289	23.6289	5.2000e-004	6.0000e-004	23.8213
Total	9.2100e-003	0.0176	0.0837	3.1000e-004	0.0345	2.8000e-004	0.0348	9.1800e-003	2.6000e-004	9.4400e-003	0.0000	28.9070	28.9070	5.3000e-004	1.4300e-003	29.3469

3.2 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7252	0.0000	0.7252	0.3669	0.0000	0.3669	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3148	3.0318	2.8569	6.7300e-003		0.1227	0.1227		0.1129	0.1129	0.0000	591.3924	591.3924	0.1913	0.0000	596.1741
Total	0.3148	3.0318	2.8569	6.7300e-003	0.7252	0.1227	0.8479	0.3669	0.1129	0.4798	0.0000	591.3924	591.3924	0.1913	0.0000	596.1741

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

3.2 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1000e-004	9.1600e-003	2.6300e-003	4.0000e-005	1.4700e-003	1.1000e-004	1.5800e-003	4.0000e-004	1.1000e-004	5.1000e-004	0.0000	4.2784	4.2784	1.0000e-005	6.7000e-004	4.4791
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9700e-003	4.7700e-003	0.0624	2.1000e-004	0.0272	1.1000e-004	0.0273	7.2200e-003	1.0000e-004	7.3300e-003	0.0000	19.0272	19.0272	3.9000e-004	4.7000e-004	19.1766
Total	7.1800e-003	0.0139	0.0650	2.5000e-004	0.0287	2.2000e-004	0.0289	7.6200e-003	2.1000e-004	7.8400e-003	0.0000	23.3056	23.3056	4.0000e-004	1.1400e-003	23.6557

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					0.3263	0.0000	0.3263	0.1651	0.0000	0.1651	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3148	3.0318	2.8569	6.7300e-003		0.1227	0.1227		0.1129	0.1129	0.0000	591.3917	591.3917	0.1913	0.0000	596.1734
Total	0.3148	3.0318	2.8569	6.7300e-003	0.3263	0.1227	0.4490	0.1651	0.1129	0.2780	0.0000	591.3917	591.3917	0.1913	0.0000	596.1734

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

3.2 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1000e-004	9.1600e-003	2.6300e-003	4.0000e-005	1.4700e-003	1.1000e-004	1.5800e-003	4.0000e-004	1.1000e-004	5.1000e-004	0.0000	4.2784	4.2784	1.0000e-005	6.7000e-004	4.4791
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9700e-003	4.7700e-003	0.0624	2.1000e-004	0.0272	1.1000e-004	0.0273	7.2200e-003	1.0000e-004	7.3300e-003	0.0000	19.0272	19.0272	3.9000e-004	4.7000e-004	19.1766
Total	7.1800e-003	0.0139	0.0650	2.5000e-004	0.0287	2.2000e-004	0.0289	7.6200e-003	2.1000e-004	7.8400e-003	0.0000	23.3056	23.3056	4.0000e-004	1.1400e-003	23.6557

3.3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0410	0.3741	0.4825	8.1000e-004		0.0158	0.0158		0.0149	0.0149	0.0000	69.5758	69.5758	0.0164	0.0000	69.9847
Total	0.0410	0.3741	0.4825	8.1000e-004		0.0158	0.0158		0.0149	0.0149	0.0000	69.5758	69.5758	0.0164	0.0000	69.9847

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

3.3 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8300e-003	0.1588	0.0733	7.9000e-004	0.0274	1.3300e-003	0.0287	7.9000e-003	1.2700e-003	9.1700e-003	0.0000	75.0139	75.0139	3.3000e-004	0.0104	78.1341
Worker	0.0398	0.0284	0.3572	1.1400e-003	0.1452	6.3000e-004	0.1458	0.0386	5.8000e-004	0.0391	0.0000	104.8363	104.8363	2.3200e-003	2.6700e-003	105.6899
Total	0.0456	0.1871	0.4305	1.9300e-003	0.1726	1.9600e-003	0.1745	0.0465	1.8500e-003	0.0483	0.0000	179.8502	179.8502	2.6500e-003	0.0131	183.8240

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	0.0410	0.3741	0.4825	8.1000e-004		0.0158	0.0158		0.0149	0.0149	0.0000	69.5758	69.5758	0.0164	0.0000	69.9846
Total	0.0410	0.3741	0.4825	8.1000e-004		0.0158	0.0158		0.0149	0.0149	0.0000	69.5758	69.5758	0.0164	0.0000	69.9846

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

3.3 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8300e-003	0.1588	0.0733	7.9000e-004	0.0274	1.3300e-003	0.0287	7.9000e-003	1.2700e-003	9.1700e-003	0.0000	75.0139	75.0139	3.3000e-004	0.0104	78.1341
Worker	0.0398	0.0284	0.3572	1.1400e-003	0.1452	6.3000e-004	0.1458	0.0386	5.8000e-004	0.0391	0.0000	104.8363	104.8363	2.3200e-003	2.6700e-003	105.6899
Total	0.0456	0.1871	0.4305	1.9300e-003	0.1726	1.9600e-003	0.1745	0.0465	1.8500e-003	0.0483	0.0000	179.8502	179.8502	2.6500e-003	0.0131	183.8240

3.4 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1149	1.0770	1.8295	2.8600e-003		0.0525	0.0525		0.0483	0.0483	0.0000	251.2417	251.2417	0.0813	0.0000	253.2731
Paving	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1283	1.0770	1.8295	2.8600e-003		0.0525	0.0525		0.0483	0.0483	0.0000	251.2417	251.2417	0.0813	0.0000	253.2731

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

3.4 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4600e-003	4.6100e-003	0.0581	1.9000e-004	0.0236	1.0000e-004	0.0237	6.2700e-003	9.0000e-005	6.3600e-003	0.0000	17.0427	17.0427	3.8000e-004	4.3000e-004	17.1815
Total	6.4600e-003	4.6100e-003	0.0581	1.9000e-004	0.0236	1.0000e-004	0.0237	6.2700e-003	9.0000e-005	6.3600e-003	0.0000	17.0427	17.0427	3.8000e-004	4.3000e-004	17.1815

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	0.1149	1.0770	1.8295	2.8600e-003		0.0525	0.0525		0.0483	0.0483	0.0000	251.2414	251.2414	0.0813	0.0000	253.2728
Paving	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1283	1.0770	1.8295	2.8600e-003		0.0525	0.0525		0.0483	0.0483	0.0000	251.2414	251.2414	0.0813	0.0000	253.2728

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

3.4 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4600e-003	4.6100e-003	0.0581	1.9000e-004	0.0236	1.0000e-004	0.0237	6.2700e-003	9.0000e-005	6.3600e-003	0.0000	17.0427	17.0427	3.8000e-004	4.3000e-004	17.1815
Total	6.4600e-003	4.6100e-003	0.0581	1.9000e-004	0.0236	1.0000e-004	0.0237	6.2700e-003	9.0000e-005	6.3600e-003	0.0000	17.0427	17.0427	3.8000e-004	4.3000e-004	17.1815

3.4 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1194	1.1199	1.9024	2.9800e-003		0.0546	0.0546		0.0503	0.0503	0.0000	261.2513	261.2513	0.0845	0.0000	263.3636
Paving	0.0140					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1335	1.1199	1.9024	2.9800e-003		0.0546	0.0546		0.0503	0.0503	0.0000	261.2513	261.2513	0.0845	0.0000	263.3636

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

3.4 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2900e-003	4.3000e-003	0.0563	1.9000e-004	0.0245	1.0000e-004	0.0246	6.5200e-003	9.0000e-005	6.6100e-003	0.0000	17.1639	17.1639	3.5000e-004	4.2000e-004	17.2987
Total	6.2900e-003	4.3000e-003	0.0563	1.9000e-004	0.0245	1.0000e-004	0.0246	6.5200e-003	9.0000e-005	6.6100e-003	0.0000	17.1639	17.1639	3.5000e-004	4.2000e-004	17.2987

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	0.1194	1.1199	1.9024	2.9800e-003		0.0546	0.0546		0.0503	0.0503	0.0000	261.2510	261.2510	0.0845	0.0000	263.3633
Paving	0.0140					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1335	1.1199	1.9024	2.9800e-003		0.0546	0.0546		0.0503	0.0503	0.0000	261.2510	261.2510	0.0845	0.0000	263.3633

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

3.4 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2900e-003	4.3000e-003	0.0563	1.9000e-004	0.0245	1.0000e-004	0.0246	6.5200e-003	9.0000e-005	6.6100e-003	0.0000	17.1639	17.1639	3.5000e-004	4.2000e-004	17.2987
Total	6.2900e-003	4.3000e-003	0.0563	1.9000e-004	0.0245	1.0000e-004	0.0246	6.5200e-003	9.0000e-005	6.6100e-003	0.0000	17.1639	17.1639	3.5000e-004	4.2000e-004	17.2987

3.5 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	0.3776	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

3.5 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6400e-003	1.8800e-003	0.0238	8.0000e-005	9.6500e-003	4.0000e-005	9.7000e-003	2.5600e-003	4.0000e-005	2.6000e-003	0.0000	6.9710	6.9710	1.5000e-004	1.8000e-004	7.0277
Total	2.6400e-003	1.8800e-003	0.0238	8.0000e-005	9.6500e-003	4.0000e-005	9.7000e-003	2.5600e-003	4.0000e-005	2.6000e-003	0.0000	6.9710	6.9710	1.5000e-004	1.8000e-004	7.0277

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	0.3759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	0.3776	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

3.5 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6400e-003	1.8800e-003	0.0238	8.0000e-005	9.6500e-003	4.0000e-005	9.7000e-003	2.5600e-003	4.0000e-005	2.6000e-003	0.0000	6.9710	6.9710	1.5000e-004	1.8000e-004	7.0277
Total	2.6400e-003	1.8800e-003	0.0238	8.0000e-005	9.6500e-003	4.0000e-005	9.7000e-003	2.5600e-003	4.0000e-005	2.6000e-003	0.0000	6.9710	6.9710	1.5000e-004	1.8000e-004	7.0277

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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	8.4800e-003	0.0143	0.0885	2.0000e-004	0.0229	1.8000e-004	0.0231	6.1200e-003	1.7000e-004	6.2800e-003	0.0000	18.7057	18.7057	9.9000e-004	9.7000e-004	19.0199
Unmitigated	8.4800e-003	0.0143	0.0885	2.0000e-004	0.0229	1.8000e-004	0.0231	6.1200e-003	1.7000e-004	6.2800e-003	0.0000	18.7057	18.7057	9.9000e-004	9.7000e-004	19.0199

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	15.00	9.95	25.00	60,684	60,684
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	15.00	9.95	25.00	60,684	60,684

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.541707	0.056721	0.172779	0.128952	0.027056	0.007396	0.007579	0.023613	0.000522	0.000189	0.027469	0.001142	0.004876
Other Asphalt Surfaces	0.541707	0.056721	0.172779	0.128952	0.027056	0.007396	0.007579	0.023613	0.000522	0.000189	0.027469	0.001142	0.004876

5.0 Energy Detail

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8.7963	8.7963	7.4000e-004	9.0000e-005	8.8417
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8.7963	8.7963	7.4000e-004	9.0000e-005	8.8417
Natural Gas Mitigated	8.7000e-004	7.9200e-003	6.6600e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.6263	8.6263	1.7000e-004	1.6000e-004	8.6775
Natural Gas Unmitigated	8.7000e-004	7.9200e-003	6.6600e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.6263	8.6263	1.7000e-004	1.6000e-004	8.6775

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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					
General Light Industry	161650	8.7000e-004	7.9200e-003	6.6600e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.6263	8.6263	1.7000e-004	1.6000e-004	8.6775
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
Total		8.7000e-004	7.9200e-003	6.6600e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.6263	8.6263	1.7000e-004	1.6000e-004	8.6775

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	161650	8.7000e-004	7.9200e-003	6.6600e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.6263	8.6263	1.7000e-004	1.6000e-004	8.6775
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
Total		8.7000e-004	7.9200e-003	6.6600e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.6263	8.6263	1.7000e-004	1.6000e-004	8.6775

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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			
General Light Industry	49600	8.7963	7.4000e-004	9.0000e-005	8.8417
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		8.7963	7.4000e-004	9.0000e-005	8.8417

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	49600	8.7963	7.4000e-004	9.0000e-005	8.8417
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		8.7963	7.4000e-004	9.0000e-005	8.8417

6.0 Area Detail

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1163	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004
Unmitigated	0.1163	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-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	0.0376					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0787					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004
Total	0.1163	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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	0.0376					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0787					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004
Total	0.1163	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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	3.0369	0.0379	9.2000e-004	4.2577
Unmitigated	3.0369	0.0379	9.2000e-004	4.2577

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	1.15625 / 0	3.0369	0.0379	9.2000e-004	4.2577
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		3.0369	0.0379	9.2000e-004	4.2577

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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			
General Light Industry	1.15625 / 0	3.0369	0.0379	9.2000e-004	4.2577
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		3.0369	0.0379	9.2000e-004	4.2577

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.2585	0.0744	0.0000	3.1180
Unmitigated	1.2585	0.0744	0.0000	3.1180

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, 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

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	6.2	1.2585	0.0744	0.0000	3.1180
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		1.2585	0.0744	0.0000	3.1180

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	6.2	1.2585	0.0744	0.0000	3.1180
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		1.2585	0.0744	0.0000	3.1180

9.0 Operational Offroad

Twentynine Palms Centralized Sewer System - Mojave Desert Air Basin, Annual

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

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
