

Appendix A

CalEEMod.2020.4.0 Emissions Reports

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

Sky View County Water District Water System Improvements Project

Tehama County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	3.21	1000sqft	0.07	0.00	0
Other Asphalt Surfaces	0.97	Acre	0.97	42,253.00	0
Other Non-Asphalt Surfaces	1.71	Acre	1.71	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.1	Precipitation Freq (Days)	68
Climate Zone	3			Operational Year	2025
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - .
- Construction Phase - Construction schedule based on project characteristics.
- Grading - Grading details provided by project engineer.
- Trips and VMT - .
- Architectural Coating - Architectural coatings for structures and water tanks.
- Vehicle Trips - No increase in operational vehicle trips.
- Area Coating - .
- Energy Use - No increase in energy use.
- Water And Wastewater - No increase in water use or wastewater treatment.

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

Solid Waste - No increase in solid waste generation.

Stationary Sources - Emergency Generators and Fire Pumps -

Construction Off-road Equipment Mitigation - Based on proposed Mitigation Measures.

Area Mitigation -

Energy Mitigation -

Road Dust -

Off-road Equipment - .

Off-road Equipment - .

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - .

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	7,100.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	10,200.00
tblArchitecturalCoating	ConstArea_Parking	2,535.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	0	7100
tblAreaCoating	Area_Nonresidential_Interior	0	10200
tblAreaCoating	Area_Parking	2535	0
tblAreaCoating	ReapplicationRatePercent	10	5
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	30
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	3.00	30.00
tblConstructionPhase	NumDays	6.00	180.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	220.00	150.00

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

tblConstructionPhase	PhaseEndDate	6/28/2023	7/12/2023
tblConstructionPhase	PhaseEndDate	7/3/2023	8/23/2023
tblConstructionPhase	PhaseEndDate	7/11/2023	4/30/2024
tblConstructionPhase	PhaseEndDate	5/28/2024	12/24/2024
tblConstructionPhase	PhaseEndDate	6/11/2024	11/12/2024
tblConstructionPhase	PhaseEndDate	5/14/2024	11/26/2024
tblConstructionPhase	PhaseStartDate	6/29/2023	7/13/2023
tblConstructionPhase	PhaseStartDate	7/4/2023	8/23/2023
tblConstructionPhase	PhaseStartDate	5/15/2024	11/27/2024
tblConstructionPhase	PhaseStartDate	5/29/2024	10/16/2024
tblConstructionPhase	PhaseStartDate	7/12/2023	5/1/2024
tblEnergyUse	LightingElect	2.70	0.00
tblEnergyUse	NT24E	4.16	0.00
tblEnergyUse	NT24NG	3.84	0.00
tblEnergyUse	T24E	1.75	0.00
tblEnergyUse	T24NG	16.86	0.00
tblGrading	AcresOfGrading	180.00	2.75
tblGrading	AcresOfGrading	45.00	1.00
tblGrading	MaterialExported	0.00	8,100.00
tblGrading	MaterialImported	0.00	6,300.00
tblLandUse	LandUseSquareFeet	3,210.00	0.00
tblLandUse	LandUseSquareFeet	42,253.20	42,253.00
tblLandUse	LandUseSquareFeet	74,487.60	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	3.98	0.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003

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

tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	240.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	1,013.00	659.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblVehicleTrips	ST_TR	1.99	0.00
tblVehicleTrips	SU_TR	5.00	0.00
tblVehicleTrips	WD_TR	4.96	0.00
tblWater	IndoorWaterUseRate	742,312.50	0.00

2.0 Emissions Summary

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7308	29.2690	19.3738	0.0494	6.3819	1.1521	7.5340	3.3965	1.0601	4.4566	0.0000	4,816.217 2	4,816.217 2	1.4191	0.0409	4,863.897 6
2024	7.7806	14.3066	16.1342	0.0295	6.2444	0.5775	6.8219	3.3656	0.5455	3.8971	0.0000	2,734.735 8	2,734.735 8	0.6484	0.0378	2,751.843 6
Maximum	7.7806	29.2690	19.3738	0.0494	6.3819	1.1521	7.5340	3.3965	1.0601	4.4566	0.0000	4,816.217 2	4,816.217 2	1.4191	0.0409	4,863.897 6

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					
2023	2.7308	29.2690	19.3738	0.0494	1.5894	1.1521	2.7415	0.8068	1.0601	1.8670	0.0000	4,816.217 2	4,816.217 2	1.4191	0.0409	4,863.897 6
2024	7.7806	14.3066	16.1342	0.0295	1.5059	0.5775	2.0834	0.7854	0.5455	1.3169	0.0000	2,734.735 8	2,734.735 8	0.6484	0.0378	2,751.843 6
Maximum	7.7806	29.2690	19.3738	0.0494	1.5894	1.1521	2.7415	0.8068	1.0601	1.8670	0.0000	4,816.217 2	4,816.217 2	1.4191	0.0409	4,863.897 6

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	75.49	0.00	66.39	76.45	0.00	61.89	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0315	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2900e-003	1.2900e-003	0.0000		1.3700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0315	1.0000e-005	6.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.2900e-003	1.2900e-003	0.0000	0.0000	1.3700e-003

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	lb/day										lb/day					
Area	0.0315	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2900e-003	1.2900e-003	0.0000		1.3700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0315	1.0000e-005	6.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.2900e-003	1.2900e-003	0.0000	0.0000	1.3700e-003

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2023	7/12/2023	5	30	
2	Site Preparation	Site Preparation	7/13/2023	8/23/2023	5	30	
3	Grading	Grading	8/23/2023	4/30/2024	5	180	
4	Building Construction	Building Construction	5/1/2024	11/26/2024	5	150	

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

5	Architectural Coating	Architectural Coating	10/16/2024	11/12/2024	5	20
6	Paving	Paving	11/27/2024	12/24/2024	5	20

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 2.75

Acres of Paving: 2.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,200; Non-Residential Outdoor: 7,100; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	79.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	659.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	10.00	7.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5871	0.0000	0.5871	0.0889	0.0000	0.0889			0.0000			0.0000
Off-Road	1.3211	12.7828	11.2264	0.0210		0.6008	0.6008		0.5630	0.5630		2,022.8194	2,022.8194	0.4917		2,035.1129
Total	1.3211	12.7828	11.2264	0.0210	0.5871	0.6008	1.1879	0.0889	0.5630	0.6519		2,022.8194	2,022.8194	0.4917		2,035.1129

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	6.5800e-003	0.3371	0.0759	1.5500e-003	0.0462	3.3400e-003	0.0495	0.0127	3.1900e-003	0.0159		164.2050	164.2050	3.1000e-004	0.0258	171.9039
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	0.0478	0.0292	0.4347	1.1800e-003	0.1277	6.9000e-004	0.1284	0.0339	6.4000e-004	0.0345		120.8031	120.8031	2.8800e-003	2.8100e-003	121.7138
Total	0.0543	0.3663	0.5106	2.7300e-003	0.1739	4.0300e-003	0.1779	0.0465	3.8300e-003	0.0504		285.0082	285.0082	3.1900e-003	0.0286	293.6176

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1321	0.0000	0.1321	0.0200	0.0000	0.0200			0.0000			0.0000
Off-Road	1.3211	12.7828	11.2264	0.0210		0.6008	0.6008		0.5630	0.5630	0.0000	2,022.819 4	2,022.819 4	0.4917		2,035.112 9
Total	1.3211	12.7828	11.2264	0.0210	0.1321	0.6008	0.7329	0.0200	0.5630	0.5830	0.0000	2,022.819 4	2,022.819 4	0.4917		2,035.112 9

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	6.5800e-003	0.3371	0.0759	1.5500e-003	0.0357	3.3400e-003	0.0391	0.0101	3.1900e-003	0.0133		164.2050	164.2050	3.1000e-004	0.0258	171.9039
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	0.0478	0.0292	0.4347	1.1800e-003	0.0944	6.9000e-004	0.0951	0.0257	6.4000e-004	0.0263		120.8031	120.8031	2.8800e-003	2.8100e-003	121.7138
Total	0.0543	0.3663	0.5106	2.7300e-003	0.1302	4.0300e-003	0.1342	0.0358	3.8300e-003	0.0396		285.0082	285.0082	3.1900e-003	0.0286	293.6176

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0354	0.0000	0.0354	3.8200e-003	0.0000	3.8200e-003			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985		2,374.8634	2,374.8634	0.7681		2,394.0654
Total	1.3027	14.2802	9.7820	0.0245	0.0354	0.5419	0.5772	3.8200e-003	0.4985	0.5024		2,374.8634	2,374.8634	0.7681		2,394.0654

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	0.0382	0.0233	0.3478	9.4000e-004	0.1022	5.5000e-004	0.1027	0.0271	5.1000e-004	0.0276		96.6425	96.6425	2.3100e-003	2.2500e-003	97.3710
Total	0.0382	0.0233	0.3478	9.4000e-004	0.1022	5.5000e-004	0.1027	0.0271	5.1000e-004	0.0276		96.6425	96.6425	2.3100e-003	2.2500e-003	97.3710

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.3 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.9500e-003	0.0000	7.9500e-003	8.6000e-004	0.0000	8.6000e-004			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985	0.0000	2,374.8634	2,374.8634	0.7681		2,394.0654
Total	1.3027	14.2802	9.7820	0.0245	7.9500e-003	0.5419	0.5498	8.6000e-004	0.4985	0.4994	0.0000	2,374.8634	2,374.8634	0.7681		2,394.0654

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	0.0382	0.0233	0.3478	9.4000e-004	0.0755	5.5000e-004	0.0761	0.0206	5.1000e-004	0.0211		96.6425	96.6425	2.3100e-003	2.2500e-003	97.3710
Total	0.0382	0.0233	0.3478	9.4000e-004	0.0755	5.5000e-004	0.0761	0.0206	5.1000e-004	0.0211		96.6425	96.6425	2.3100e-003	2.2500e-003	97.3710

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0524	0.0000	6.0524	3.3141	0.0000	3.3141			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	6.0524	0.6044	6.6568	3.3141	0.5560	3.8701		1,995.6147	1,995.6147	0.6454		2,011.7503

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.1500e-003	0.4687	0.1055	2.1600e-003	0.0642	4.6400e-003	0.0688	0.0176	4.4400e-003	0.0221		228.2935	228.2935	4.3000e-004	0.0359	238.9971
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	0.0478	0.0292	0.4347	1.1800e-003	0.1277	6.9000e-004	0.1284	0.0339	6.4000e-004	0.0345		120.8031	120.8031	2.8800e-003	2.8100e-003	121.7138
Total	0.0569	0.4979	0.5402	3.3400e-003	0.1919	5.3300e-003	0.1973	0.0515	5.0800e-003	0.0566		349.0966	349.0966	3.3100e-003	0.0387	360.7109

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3618	0.0000	1.3618	0.7457	0.0000	0.7457			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	1.3618	0.6044	1.9661	0.7457	0.5560	1.3017	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.1500e-003	0.4687	0.1055	2.1600e-003	0.0497	4.6400e-003	0.0543	0.0141	4.4400e-003	0.0185		228.2935	228.2935	4.3000e-004	0.0359	238.9971
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	0.0478	0.0292	0.4347	1.1800e-003	0.0944	6.9000e-004	0.0951	0.0257	6.4000e-004	0.0263		120.8031	120.8031	2.8800e-003	2.8100e-003	121.7138
Total	0.0569	0.4979	0.5402	3.3400e-003	0.1441	5.3300e-003	0.1494	0.0397	5.0800e-003	0.0448		349.0966	349.0966	3.3100e-003	0.0387	360.7109

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.4 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0524	0.0000	6.0524	3.3141	0.0000	3.3141			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265		1,995.5803	1,995.5803	0.6454		2,011.7155
Total	1.3015	13.8178	8.6998	0.0206	6.0524	0.5722	6.6247	3.3141	0.5265	3.8406		1,995.5803	1,995.5803	0.6454		2,011.7155

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.0800e-003	0.4631	0.1056	2.1100e-003	0.0642	4.6300e-003	0.0688	0.0176	4.4300e-003	0.0221		223.8444	223.8444	4.2000e-004	0.0352	234.3395
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	0.0442	0.0257	0.3992	1.1400e-003	0.1277	6.5000e-004	0.1284	0.0339	6.0000e-004	0.0345		117.7284	117.7284	2.5700e-003	2.5900e-003	118.5652
Total	0.0533	0.4888	0.5048	3.2500e-003	0.1919	5.2800e-003	0.1972	0.0515	5.0300e-003	0.0565		341.5729	341.5729	2.9900e-003	0.0378	352.9047

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.4 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3618	0.0000	1.3618	0.7457	0.0000	0.7457			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265	0.0000	1,995.5803	1,995.5803	0.6454		2,011.7155
Total	1.3015	13.8178	8.6998	0.0206	1.3618	0.5722	1.9340	0.7457	0.5265	1.2721	0.0000	1,995.5803	1,995.5803	0.6454		2,011.7155

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.0800e-003	0.4631	0.1056	2.1100e-003	0.0497	4.6300e-003	0.0543	0.0141	4.4300e-003	0.0185		223.8444	223.8444	4.2000e-004	0.0352	234.3395
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	0.0442	0.0257	0.3992	1.1400e-003	0.0944	6.5000e-004	0.0951	0.0257	6.0000e-004	0.0263		117.7284	117.7284	2.5700e-003	2.5900e-003	118.5652
Total	0.0533	0.4888	0.5048	3.2500e-003	0.1441	5.2800e-003	0.1494	0.0397	5.0300e-003	0.0448		341.5729	341.5729	2.9900e-003	0.0378	352.9047

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5142	11.9474	13.6565	0.0236		0.5016	0.5016		0.4817	0.4817		2,149.9523	2,149.9523	0.3813		2,159.4840
Total	1.5142	11.9474	13.6565	0.0236		0.5016	0.5016		0.4817	0.4817		2,149.9523	2,149.9523	0.3813		2,159.4840

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	9.8700e-003	0.3075	0.1087	1.3100e-003	0.0429	2.0900e-003	0.0450	0.0124	2.0000e-003	0.0144		138.5156	138.5156	5.5000e-004	0.0201	144.5242
Worker	0.0442	0.0257	0.3992	1.1400e-003	0.1277	6.5000e-004	0.1284	0.0339	6.0000e-004	0.0345		117.7284	117.7284	2.5700e-003	2.5900e-003	118.5652
Total	0.0541	0.3332	0.5079	2.4500e-003	0.1707	2.7400e-003	0.1734	0.0462	2.6000e-003	0.0488		256.2441	256.2441	3.1200e-003	0.0227	263.0893

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5142	11.9474	13.6565	0.0236		0.5016	0.5016		0.4817	0.4817	0.0000	2,149.9523	2,149.9523	0.3813		2,159.4840
Total	1.5142	11.9474	13.6565	0.0236		0.5016	0.5016		0.4817	0.4817	0.0000	2,149.9523	2,149.9523	0.3813		2,159.4840

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	9.8700e-003	0.3075	0.1087	1.3100e-003	0.0338	2.0900e-003	0.0359	0.0101	2.0000e-003	0.0121		138.5156	138.5156	5.5000e-004	0.0201	144.5242
Worker	0.0442	0.0257	0.3992	1.1400e-003	0.0944	6.5000e-004	0.0951	0.0257	6.0000e-004	0.0263		117.7284	117.7284	2.5700e-003	2.5900e-003	118.5652
Total	0.0541	0.3332	0.5079	2.4500e-003	0.1282	2.7400e-003	0.1309	0.0358	2.6000e-003	0.0384		256.2441	256.2441	3.1200e-003	0.0227	263.0893

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.6 Architectural Coating - 2024

Unmitigated Construction 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	6.0139					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	6.1947	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.0177	0.0103	0.1597	4.6000e-004	0.0511	2.6000e-004	0.0514	0.0136	2.4000e-004	0.0138		47.0914	47.0914	1.0300e-003	1.0400e-003	47.4261
Total	0.0177	0.0103	0.1597	4.6000e-004	0.0511	2.6000e-004	0.0514	0.0136	2.4000e-004	0.0138		47.0914	47.0914	1.0300e-003	1.0400e-003	47.4261

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.6 Architectural Coating - 2024

Mitigated Construction 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	6.0139					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	6.1947	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.0177	0.0103	0.1597	4.6000e-004	0.0378	2.6000e-004	0.0380	0.0103	2.4000e-004	0.0105		47.0914	47.0914	1.0300e-003	1.0400e-003	47.4261
Total	0.0177	0.0103	0.1597	4.6000e-004	0.0378	2.6000e-004	0.0380	0.0103	2.4000e-004	0.0105		47.0914	47.0914	1.0300e-003	1.0400e-003	47.4261

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.7 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8425	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652		1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	0.1271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9695	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652		1,710.2024	1,710.2024	0.5420		1,723.7529

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	0.0575	0.0334	0.5190	1.4800e-003	0.1661	8.5000e-004	0.1669	0.0440	7.8000e-004	0.0448		153.0470	153.0470	3.3400e-003	3.3700e-003	154.1347
Total	0.0575	0.0334	0.5190	1.4800e-003	0.1661	8.5000e-004	0.1669	0.0440	7.8000e-004	0.0448		153.0470	153.0470	3.3400e-003	3.3700e-003	154.1347

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

3.7 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8425	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652	0.0000	1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	0.1271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9695	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652	0.0000	1,710.2024	1,710.2024	0.5420		1,723.7529

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	0.0575	0.0334	0.5190	1.4800e-003	0.1227	8.5000e-004	0.1236	0.0334	7.8000e-004	0.0342		153.0470	153.0470	3.3400e-003	3.3700e-003	154.1347
Total	0.0575	0.0334	0.5190	1.4800e-003	0.1227	8.5000e-004	0.1236	0.0334	7.8000e-004	0.0342		153.0470	153.0470	3.3400e-003	3.3700e-003	154.1347

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.504547	0.051683	0.175019	0.141516	0.044240	0.010664	0.006436	0.029741	0.000646	0.000000	0.029297	0.001351	0.004860
Other Asphalt Surfaces	0.504547	0.051683	0.175019	0.141516	0.044240	0.010664	0.006436	0.029741	0.000646	0.000000	0.029297	0.001351	0.004860
Other Non-Asphalt Surfaces	0.504547	0.051683	0.175019	0.141516	0.044240	0.010664	0.006436	0.029741	0.000646	0.000000	0.029297	0.001351	0.004860

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

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

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

5.2 Energy by Land Use - NaturalGas

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	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0315	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2900e-003	1.2900e-003	0.0000		1.3700e-003
Unmitigated	0.0315	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2900e-003	1.2900e-003	0.0000		1.3700e-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	0.0165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0150					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2900e-003	1.2900e-003	0.0000		1.3700e-003
Total	0.0315	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2900e-003	1.2900e-003	0.0000		1.3700e-003

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0165					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0150					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2900e-003	1.2900e-003	0.0000		1.3700e-003
Total	0.0315	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2900e-003	1.2900e-003	0.0000		1.3700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Summer

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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	240	50	0.73	Diesel

Boilers

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

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Annual

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

Sky View County Water District Water System Improvements Project

Tehama County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	3.21	1000sqft	0.07	0.00	0
Other Asphalt Surfaces	0.97	Acre	0.97	42,253.00	0
Other Non-Asphalt Surfaces	1.71	Acre	1.71	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.1	Precipitation Freq (Days)	68
Climate Zone	3			Operational Year	2025
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - .

Construction Phase - Construction schedule based on project characteristics.

Grading - Grading details provided by project engineer.

Trips and VMT - .

Architectural Coating - Architectural coatings for structures and water tanks.

Vehicle Trips - No increase in operational vehicle trips.

Area Coating - .

Energy Use - No increase in energy use.

Water And Wastewater - No increase in water use or wastewater treatment.

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Annual

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

Solid Waste - No increase in solid waste generation.

Stationary Sources - Emergency Generators and Fire Pumps -

Construction Off-road Equipment Mitigation - Based on proposed Mitigation Measures.

Area Mitigation -

Energy Mitigation -

Road Dust -

Off-road Equipment - .

Off-road Equipment - .

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - .

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	0.00	7,100.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	0.00	10,200.00
tblArchitecturalCoating	ConstArea_Parking	2,535.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	0	7100
tblAreaCoating	Area_Nonresidential_Interior	0	10200
tblAreaCoating	Area_Parking	2535	0
tblAreaCoating	ReapplicationRatePercent	10	5
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	30
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	3.00	30.00
tblConstructionPhase	NumDays	6.00	180.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	220.00	150.00

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

tblConstructionPhase	PhaseEndDate	6/28/2023	7/12/2023
tblConstructionPhase	PhaseEndDate	7/3/2023	8/23/2023
tblConstructionPhase	PhaseEndDate	7/11/2023	4/30/2024
tblConstructionPhase	PhaseEndDate	5/28/2024	12/24/2024
tblConstructionPhase	PhaseEndDate	6/11/2024	11/12/2024
tblConstructionPhase	PhaseEndDate	5/14/2024	11/26/2024
tblConstructionPhase	PhaseStartDate	6/29/2023	7/13/2023
tblConstructionPhase	PhaseStartDate	7/4/2023	8/23/2023
tblConstructionPhase	PhaseStartDate	5/15/2024	11/27/2024
tblConstructionPhase	PhaseStartDate	5/29/2024	10/16/2024
tblConstructionPhase	PhaseStartDate	7/12/2023	5/1/2024
tblEnergyUse	LightingElect	2.70	0.00
tblEnergyUse	NT24E	4.16	0.00
tblEnergyUse	NT24NG	3.84	0.00
tblEnergyUse	T24E	1.75	0.00
tblEnergyUse	T24NG	16.86	0.00
tblGrading	AcresOfGrading	180.00	2.75
tblGrading	AcresOfGrading	45.00	1.00
tblGrading	MaterialExported	0.00	8,100.00
tblGrading	MaterialImported	0.00	6,300.00
tblLandUse	LandUseSquareFeet	3,210.00	0.00
tblLandUse	LandUseSquareFeet	42,253.20	42,253.00
tblLandUse	LandUseSquareFeet	74,487.60	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	3.98	0.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003

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

tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	240.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	1,013.00	659.00
tblTripsAndVMT	WorkerTripNumber	15.00	13.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblVehicleTrips	ST_TR	1.99	0.00
tblVehicleTrips	SU_TR	5.00	0.00
tblVehicleTrips	WD_TR	4.96	0.00
tblWater	IndoorWaterUseRate	742,312.50	0.00

2.0 Emissions Summary

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1050	1.1095	0.7536	1.8400e-003	0.3047	0.0456	0.3502	0.1590	0.0421	0.2011	0.0000	163.2776	163.2776	0.0446	2.0700e-003	165.0099
2024	0.2482	1.6398	1.5977	3.2100e-003	0.2871	0.0675	0.3546	0.1504	0.0637	0.2141	0.0000	274.6329	274.6329	0.0569	3.1100e-003	276.9813
Maximum	0.2482	1.6398	1.5977	3.2100e-003	0.3047	0.0675	0.3546	0.1590	0.0637	0.2141	0.0000	274.6329	274.6329	0.0569	3.1100e-003	276.9813

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					
2023	0.1050	1.1095	0.7536	1.8400e-003	0.0752	0.0456	0.1207	0.0376	0.0421	0.0797	0.0000	163.2775	163.2775	0.0446	2.0700e-003	165.0098
2024	0.2482	1.6398	1.5977	3.2100e-003	0.0764	0.0675	0.1439	0.0372	0.0637	0.1009	0.0000	274.6326	274.6326	0.0569	3.1100e-003	276.9810
Maximum	0.2482	1.6398	1.5977	3.2100e-003	0.0764	0.0675	0.1439	0.0376	0.0637	0.1009	0.0000	274.6326	274.6326	0.0569	3.1100e-003	276.9810

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	74.39	0.00	62.45	75.83	0.00	56.51	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2023	8-31-2023	0.5051	0.5051
2	9-1-2023	11-30-2023	0.5325	0.5325
3	12-1-2023	2-29-2024	0.5181	0.5181
4	3-1-2024	5-31-2024	0.4950	0.4950
5	6-1-2024	8-31-2024	0.4550	0.4550
6	9-1-2024	9-30-2024	0.1484	0.1484
		Highest	0.5325	0.5325

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.7400e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	9.8500e-003	0.0321	0.0357	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0156	0.0321	0.0358	5.0000e-005	0.0000	1.4500e-003	1.4500e-003	0.0000	1.4500e-003	1.4500e-003	0.0000	4.5697	4.5697	6.4000e-004	0.0000	4.5857

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

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	-52.1700
Total	-52.1700

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2023	7/12/2023	5	30	
2	Site Preparation	Site Preparation	7/13/2023	8/23/2023	5	30	
3	Grading	Grading	8/23/2023	4/30/2024	5	180	
4	Building Construction	Building Construction	5/1/2024	11/26/2024	5	150	
5	Architectural Coating	Architectural Coating	10/16/2024	11/12/2024	5	20	
6	Paving	Paving	11/27/2024	12/24/2024	5	20	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 2.75

Acres of Paving: 2.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,200; Non-Residential Outdoor: 7,100; Striped Parking Area: 0 (Architectural Coating – sqft)

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

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	79.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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Grading	4	10.00	0.00	659.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	10.00	7.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8100e-003	0.0000	8.8100e-003	1.3300e-003	0.0000	1.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.1917	0.1684	3.2000e-004		9.0100e-003	9.0100e-003		8.4500e-003	8.4500e-003	0.0000	27.5261	27.5261	6.6900e-003	0.0000	27.6934
Total	0.0198	0.1917	0.1684	3.2000e-004	8.8100e-003	9.0100e-003	0.0178	1.3300e-003	8.4500e-003	9.7800e-003	0.0000	27.5261	27.5261	6.6900e-003	0.0000	27.6934

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3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	5.3300e-003	1.1500e-003	2.0000e-005	6.7000e-004	5.0000e-005	7.2000e-004	1.8000e-004	5.0000e-005	2.3000e-004	0.0000	2.2359	2.2359	0.0000	3.5000e-004	2.3407
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	6.3000e-004	5.0000e-004	5.6400e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5060	1.5060	4.0000e-005	4.0000e-005	1.5196
Total	7.3000e-004	5.8300e-003	6.7900e-003	4.0000e-005	2.5100e-003	6.0000e-005	2.5700e-003	6.7000e-004	6.0000e-005	7.3000e-004	0.0000	3.7419	3.7419	4.0000e-005	3.9000e-004	3.8603

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					1.9800e-003	0.0000	1.9800e-003	3.0000e-004	0.0000	3.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.1917	0.1684	3.2000e-004		9.0100e-003	9.0100e-003		8.4500e-003	8.4500e-003	0.0000	27.5260	27.5260	6.6900e-003	0.0000	27.6933
Total	0.0198	0.1917	0.1684	3.2000e-004	1.9800e-003	9.0100e-003	0.0110	3.0000e-004	8.4500e-003	8.7500e-003	0.0000	27.5260	27.5260	6.6900e-003	0.0000	27.6933

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3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	5.3300e-003	1.1500e-003	2.0000e-005	5.2000e-004	5.0000e-005	5.7000e-004	1.5000e-004	5.0000e-005	2.0000e-004	0.0000	2.2359	2.2359	0.0000	3.5000e-004	2.3407
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	6.3000e-004	5.0000e-004	5.6400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.5060	1.5060	4.0000e-005	4.0000e-005	1.5196
Total	7.3000e-004	5.8300e-003	6.7900e-003	4.0000e-005	1.8800e-003	6.0000e-005	1.9400e-003	5.2000e-004	6.0000e-005	5.8000e-004	0.0000	3.7419	3.7419	4.0000e-005	3.9000e-004	3.8603

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2142	0.1467	3.7000e-004		8.1300e-003	8.1300e-003		7.4800e-003	7.4800e-003	0.0000	32.3166	32.3166	0.0105	0.0000	32.5779
Total	0.0195	0.2142	0.1467	3.7000e-004	5.3000e-004	8.1300e-003	8.6600e-003	6.0000e-005	7.4800e-003	7.5400e-003	0.0000	32.3166	32.3166	0.0105	0.0000	32.5779

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3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	4.0000e-004	4.5100e-003	1.0000e-005	1.4700e-003	1.0000e-005	1.4800e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2048	1.2048	3.0000e-005	3.0000e-005	1.2156
Total	5.1000e-004	4.0000e-004	4.5100e-003	1.0000e-005	1.4700e-003	1.0000e-005	1.4800e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2048	1.2048	3.0000e-005	3.0000e-005	1.2156

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					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2142	0.1467	3.7000e-004		8.1300e-003	8.1300e-003		7.4800e-003	7.4800e-003	0.0000	32.3166	32.3166	0.0105	0.0000	32.5779
Total	0.0195	0.2142	0.1467	3.7000e-004	1.2000e-004	8.1300e-003	8.2500e-003	1.0000e-005	7.4800e-003	7.4900e-003	0.0000	32.3166	32.3166	0.0105	0.0000	32.5779

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3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	4.0000e-004	4.5100e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.2048	1.2048	3.0000e-005	3.0000e-005	1.2156
Total	5.1000e-004	4.0000e-004	4.5100e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.2048	1.2048	3.0000e-005	3.0000e-005	1.2156

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2828	0.0000	0.2828	0.1543	0.0000	0.1543	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0620	0.6727	0.4047	9.6000e-004		0.0281	0.0281		0.0259	0.0259	0.0000	84.1832	84.1832	0.0272	0.0000	84.8639
Total	0.0620	0.6727	0.4047	9.6000e-004	0.2828	0.0281	0.3109	0.1543	0.0259	0.1801	0.0000	84.1832	84.1832	0.0272	0.0000	84.8639

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3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.1000e-004	0.0230	4.9500e-003	1.0000e-004	2.8800e-003	2.2000e-004	3.1000e-003	7.9000e-004	2.1000e-004	1.0000e-003	0.0000	9.6365	9.6365	2.0000e-005	1.5100e-003	10.0883
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9700e-003	1.5600e-003	0.0175	5.0000e-005	5.7000e-003	3.0000e-005	5.7300e-003	1.5200e-003	3.0000e-005	1.5500e-003	0.0000	4.6686	4.6686	1.3000e-004	1.3000e-004	4.7106
Total	2.3800e-003	0.0245	0.0224	1.5000e-004	8.5800e-003	2.5000e-004	8.8300e-003	2.3100e-003	2.4000e-004	2.5500e-003	0.0000	14.3051	14.3051	1.5000e-004	1.6400e-003	14.7989

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					0.0636	0.0000	0.0636	0.0347	0.0000	0.0347	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0620	0.6727	0.4047	9.6000e-004		0.0281	0.0281		0.0259	0.0259	0.0000	84.1831	84.1831	0.0272	0.0000	84.8638
Total	0.0620	0.6727	0.4047	9.6000e-004	0.0636	0.0281	0.0917	0.0347	0.0259	0.0606	0.0000	84.1831	84.1831	0.0272	0.0000	84.8638

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3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.1000e-004	0.0230	4.9500e-003	1.0000e-004	2.2400e-003	2.2000e-004	2.4500e-003	6.4000e-004	2.1000e-004	8.4000e-004	0.0000	9.6365	9.6365	2.0000e-005	1.5100e-003	10.0883
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9700e-003	1.5600e-003	0.0175	5.0000e-005	4.2200e-003	3.0000e-005	4.2500e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	4.6686	4.6686	1.3000e-004	1.3000e-004	4.7106
Total	2.3800e-003	0.0245	0.0224	1.5000e-004	6.4600e-003	2.5000e-004	6.7000e-003	1.7900e-003	2.4000e-004	2.0200e-003	0.0000	14.3051	14.3051	1.5000e-004	1.6400e-003	14.7989

3.4 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2647	0.0000	0.2647	0.1443	0.0000	0.1443	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0566	0.6011	0.3784	9.0000e-004		0.0249	0.0249		0.0229	0.0229	0.0000	78.7507	78.7507	0.0255	0.0000	79.3874
Total	0.0566	0.6011	0.3784	9.0000e-004	0.2647	0.0249	0.2896	0.1443	0.0229	0.1672	0.0000	78.7507	78.7507	0.0255	0.0000	79.3874

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3.4 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8000e-004	0.0212	4.6300e-003	9.0000e-005	2.7000e-003	2.0000e-004	2.9000e-003	7.4000e-004	1.9000e-004	9.4000e-004	0.0000	8.8392	8.8392	2.0000e-005	1.3900e-003	9.2536
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7100e-003	1.2900e-003	0.0151	5.0000e-005	5.3300e-003	3.0000e-005	5.3600e-003	1.4200e-003	3.0000e-005	1.4400e-003	0.0000	4.2572	4.2572	1.1000e-004	1.1000e-004	4.2934
Total	2.0900e-003	0.0225	0.0197	1.4000e-004	8.0300e-003	2.3000e-004	8.2600e-003	2.1600e-003	2.2000e-004	2.3800e-003	0.0000	13.0964	13.0964	1.3000e-004	1.5000e-003	13.5470

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					0.0596	0.0000	0.0596	0.0325	0.0000	0.0325	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0566	0.6011	0.3784	9.0000e-004		0.0249	0.0249		0.0229	0.0229	0.0000	78.7506	78.7506	0.0255	0.0000	79.3873
Total	0.0566	0.6011	0.3784	9.0000e-004	0.0596	0.0249	0.0845	0.0325	0.0229	0.0554	0.0000	78.7506	78.7506	0.0255	0.0000	79.3873

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3.4 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8000e-004	0.0212	4.6300e-003	9.0000e-005	2.0900e-003	2.0000e-004	2.2900e-003	5.9000e-004	1.9000e-004	7.9000e-004	0.0000	8.8392	8.8392	2.0000e-005	1.3900e-003	9.2536
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7100e-003	1.2900e-003	0.0151	5.0000e-005	3.9500e-003	3.0000e-005	3.9800e-003	1.0800e-003	3.0000e-005	1.1100e-003	0.0000	4.2572	4.2572	1.1000e-004	1.1000e-004	4.2934
Total	2.0900e-003	0.0225	0.0197	1.4000e-004	6.0400e-003	2.3000e-004	6.2700e-003	1.6700e-003	2.2000e-004	1.9000e-003	0.0000	13.0964	13.0964	1.3000e-004	1.5000e-003	13.5470

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1136	0.8961	1.0242	1.7700e-003		0.0376	0.0376		0.0361	0.0361	0.0000	146.2803	146.2803	0.0259	0.0000	146.9288
Total	0.1136	0.8961	1.0242	1.7700e-003		0.0376	0.0376		0.0361	0.0361	0.0000	146.2803	146.2803	0.0259	0.0000	146.9288

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3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	7.2000e-004	0.0242	8.3300e-003	1.0000e-004	3.1100e-003	1.6000e-004	3.2700e-003	9.0000e-004	1.5000e-004	1.0500e-003	0.0000	9.4337	9.4337	4.0000e-005	1.3700e-003	9.8434
Worker	2.9400e-003	2.2200e-003	0.0260	8.0000e-005	9.1900e-003	5.0000e-005	9.2400e-003	2.4500e-003	5.0000e-005	2.4900e-003	0.0000	7.3401	7.3401	1.8000e-004	1.9000e-004	7.4024
Total	3.6600e-003	0.0265	0.0343	1.8000e-004	0.0123	2.1000e-004	0.0125	3.3500e-003	2.0000e-004	3.5400e-003	0.0000	16.7738	16.7738	2.2000e-004	1.5600e-003	17.2458

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	0.1136	0.8961	1.0242	1.7700e-003		0.0376	0.0376		0.0361	0.0361	0.0000	146.2801	146.2801	0.0259	0.0000	146.9286
Total	0.1136	0.8961	1.0242	1.7700e-003		0.0376	0.0376		0.0361	0.0361	0.0000	146.2801	146.2801	0.0259	0.0000	146.9286

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Annual

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

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	7.2000e-004	0.0242	8.3300e-003	1.0000e-004	2.4600e-003	1.6000e-004	2.6200e-003	7.4000e-004	1.5000e-004	8.9000e-004	0.0000	9.4337	9.4337	4.0000e-005	1.3700e-003	9.8434
Worker	2.9400e-003	2.2200e-003	0.0260	8.0000e-005	6.8100e-003	5.0000e-005	6.8600e-003	1.8600e-003	5.0000e-005	1.9100e-003	0.0000	7.3401	7.3401	1.8000e-004	1.9000e-004	7.4024
Total	3.6600e-003	0.0265	0.0343	1.8000e-004	9.2700e-003	2.1000e-004	9.4800e-003	2.6000e-003	2.0000e-004	2.8000e-003	0.0000	16.7738	16.7738	2.2000e-004	1.5600e-003	17.2458

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0601					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
Total	0.0620	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569

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3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.2000e-004	1.3800e-003	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3915	0.3915	1.0000e-005	1.0000e-005	0.3948
Total	1.6000e-004	1.2000e-004	1.3800e-003	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3915	0.3915	1.0000e-005	1.0000e-005	0.3948

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	0.0601					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
Total	0.0620	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568

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3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.2000e-004	1.3800e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3915	0.3915	1.0000e-005	1.0000e-005	0.3948
Total	1.6000e-004	1.2000e-004	1.3800e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3915	0.3915	1.0000e-005	1.0000e-005	0.3948

3.7 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4200e-003	0.0810	0.1171	1.8000e-004		3.9600e-003	3.9600e-003		3.6500e-003	3.6500e-003	0.0000	15.5147	15.5147	4.9200e-003	0.0000	15.6376
Paving	1.2700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.6900e-003	0.0810	0.1171	1.8000e-004		3.9600e-003	3.9600e-003		3.6500e-003	3.6500e-003	0.0000	15.5147	15.5147	4.9200e-003	0.0000	15.6376

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

3.7 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.9000e-004	4.5000e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2723	1.2723	3.0000e-005	3.0000e-005	1.2831
Total	5.1000e-004	3.9000e-004	4.5000e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2723	1.2723	3.0000e-005	3.0000e-005	1.2831

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	8.4200e-003	0.0810	0.1171	1.8000e-004		3.9600e-003	3.9600e-003		3.6500e-003	3.6500e-003	0.0000	15.5147	15.5147	4.9200e-003	0.0000	15.6376
Paving	1.2700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.6900e-003	0.0810	0.1171	1.8000e-004		3.9600e-003	3.9600e-003		3.6500e-003	3.6500e-003	0.0000	15.5147	15.5147	4.9200e-003	0.0000	15.6376

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3.7 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.9000e-004	4.5000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.2723	1.2723	3.0000e-005	3.0000e-005	1.2831
Total	5.1000e-004	3.9000e-004	4.5000e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.2723	1.2723	3.0000e-005	3.0000e-005	1.2831

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Non-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	0.504547	0.051683	0.175019	0.141516	0.044240	0.010664	0.006436	0.029741	0.000646	0.000000	0.029297	0.001351	0.004860
Other Asphalt Surfaces	0.504547	0.051683	0.175019	0.141516	0.044240	0.010664	0.006436	0.029741	0.000646	0.000000	0.029297	0.001351	0.004860

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7400e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Unmitigated	5.7400e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-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	3.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Total	5.7400e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004

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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	3.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Total	5.7400e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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
Emergency Generator	1	0	240	50	0.73	Diesel

Boilers

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

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

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (50 - 75 HP)	9.8500e-003	0.0321	0.0357	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856
Total	9.8500e-003	0.0321	0.0357	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-52.1700	0.0000	0.0000	-52.1700

Sky View County Water District Water System Improvements Project - Tehama County APCD Air District, Annual

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

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Trees	37.93 / 37.46	-52.1700	0.0000	0.0000	-52.1700
Total		-52.1700	0.0000	0.0000	-52.1700