

**APPENDIX B**  
MALAKOFF DIGGINS SHP SEDIMENT CONTROL BMP  
PLAN CALEEMOD MODEL OUTPUT

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

**Malakoff Diggins SHP Sediment Control BMP Plan  
Nevada County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	10.00	Acre	10.00	435,600.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	80
<b>Climate Zone</b>	1			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - BMP disturbance area approximately 6.5 acres (including staging areas and roads); using 10 acres as conservative. Building area of 1,000 sq ft used to represent soldier pile wall.

Construction Phase - Building construction changed from default 230 days to 15 days intended to represent soldier pile wall. Defaults for "Demolition", "Paving" and "Architectural Coating" deleted as not applicable. "Site Preparation" and "Grading" default total days increased from 10 and 20, respectively, to 20 and 40. Site Preparation start date changed to 6/1/21 to eliminate default days for Demolition.

Grading - Changed total acres graded to match 10-acre site.

Trips and VMT - Changed "Building Construction" defaults to reflect fewer worker/vendor trips (worker trips / day from 183 to 20; vendor trips per day from 71 to 10)100. Added 110 trips for hauling rock for berms (default was 0 trips). Added 10 trips for hauling soldier pile wall material (default was zero). Changed worker and vendor trip lengths to 30 miles (defaults were: worker, 16.8; vendor, 6.6). Kept hauling at default of 20.

On-road Fugitive Dust - Changed all percent paveds to 90 from default of 100.

Vehicle Trips - Changed all operational mobile trips to zero.

Vehicle Emission Factors -

Consumer Products - Changed Pesticides/Fertilizers and Degreaser emission factors to 0 from default of 0.00000005152 and 0.0000003542 since would not be used.

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

Area Coating - Changed Non-Residential Interior/Exterior sq ft to 0 from 1500 and 500, respectively.

Landscape Equipment - Kept Summer Days at default of 180 to account for periodic maintenance.

Water And Wastewater - Changed all to 0 as no water/wastewater associated with operations.

Solid Waste - Changed Waste Generation Rate to 0 from 0.86.

Land Use Change -

Construction Off-road Equipment Mitigation - Changed Unpaved Road Mitigation Vehicle Speed to 20

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	20
tblConstructionPhase	NumDays	230.00	15.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	6/27/2023	9/13/2022
tblConstructionPhase	PhaseEndDate	8/9/2022	8/23/2022
tblConstructionPhase	PhaseEndDate	7/12/2022	6/28/2022
tblConstructionPhase	PhaseStartDate	8/10/2022	8/24/2022
tblConstructionPhase	PhaseStartDate	7/13/2022	6/29/2022
tblConstructionPhase	PhaseStartDate	6/29/2022	6/1/2022
tblGrading	AcresOfGrading	40.00	10.00
tblGrading	AcresOfGrading	30.00	10.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	0.86	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	110.00
tblTripsAndVMT	VendorTripLength	6.60	30.00
tblTripsAndVMT	VendorTripLength	6.60	30.00
tblTripsAndVMT	VendorTripLength	6.60	30.00
tblTripsAndVMT	VendorTripNumber	71.00	10.00
tblTripsAndVMT	WorkerTripLength	16.80	30.00
tblTripsAndVMT	WorkerTripLength	16.80	30.00
tblTripsAndVMT	WorkerTripLength	16.80	30.00
tblTripsAndVMT	WorkerTripNumber	183.00	20.00
tblVehicleTrips	CC_TL	6.60	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.60	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	14.70	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCogenCombDigestGasPercent	0.00	100.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	100.00

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	2,117.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	OutdoorWaterUseRate	11,914,813.50	0.00
tblWater	SepticTankPercent	10.33	0.00

**2.0 Emissions Summary**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.8907	0.8907
2	9-1-2022	9-30-2022	0.0915	0.0915
		Highest	0.8907	0.8907

**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	8.0000e-003	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-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
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
<b>Total</b>	<b>8.0000e-003</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9000e-004</b>

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	8.0000e-003	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-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
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
<b>Total</b>	<b>8.0000e-003</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9000e-004</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/28/2022	5	20	
2	Grading	Grading	6/29/2022	8/23/2022	5	40	
3	Building Construction	Building Construction	8/24/2022	9/13/2022	5	15	



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**Acres of Grading (Site Preparation Phase): 10**

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	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
Site Preparation	7	18.00	0.00	0.00	30.00	30.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	110.00	30.00	30.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	20.00	10.00	0.00	30.00	30.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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Reduce Vehicle Speed on Unpaved Roads

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1860	0.0000	0.1860	0.0999	0.0000	0.0999	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3308	0.1970	3.8000e-004		0.0161	0.0161		0.0148	0.0148	0.0000	33.4394	33.4394	0.0108	0.0000	33.7098
<b>Total</b>	<b>0.0317</b>	<b>0.3308</b>	<b>0.1970</b>	<b>3.8000e-004</b>	<b>0.1860</b>	<b>0.0161</b>	<b>0.2021</b>	<b>0.0999</b>	<b>0.0148</b>	<b>0.1147</b>	<b>0.0000</b>	<b>33.4394</b>	<b>33.4394</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7098</b>

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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**3.2 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.4000e-003	1.3400e-003	0.0133	4.0000e-005	0.6241	2.0000e-005	0.6241	0.0629	2.0000e-005	0.0629	0.0000	3.2341	3.2341	8.0000e-005	1.0000e-004	3.2659
<b>Total</b>	<b>1.4000e-003</b>	<b>1.3400e-003</b>	<b>0.0133</b>	<b>4.0000e-005</b>	<b>0.6241</b>	<b>2.0000e-005</b>	<b>0.6241</b>	<b>0.0629</b>	<b>2.0000e-005</b>	<b>0.0629</b>	<b>0.0000</b>	<b>3.2341</b>	<b>3.2341</b>	<b>8.0000e-005</b>	<b>1.0000e-004</b>	<b>3.2659</b>

**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					0.1860	0.0000	0.1860	0.0999	0.0000	0.0999	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3308	0.1970	3.8000e-004		0.0161	0.0161		0.0148	0.0148	0.0000	33.4394	33.4394	0.0108	0.0000	33.7097
<b>Total</b>	<b>0.0317</b>	<b>0.3308</b>	<b>0.1970</b>	<b>3.8000e-004</b>	<b>0.1860</b>	<b>0.0161</b>	<b>0.2021</b>	<b>0.0999</b>	<b>0.0148</b>	<b>0.1147</b>	<b>0.0000</b>	<b>33.4394</b>	<b>33.4394</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7097</b>

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

**3.2 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.4000e-003	1.3400e-003	0.0133	4.0000e-005	0.4423	2.0000e-005	0.4423	0.0447	2.0000e-005	0.0447	0.0000	3.2341	3.2341	8.0000e-005	1.0000e-004	3.2659
<b>Total</b>	<b>1.4000e-003</b>	<b>1.3400e-003</b>	<b>0.0133</b>	<b>4.0000e-005</b>	<b>0.4423</b>	<b>2.0000e-005</b>	<b>0.4423</b>	<b>0.0447</b>	<b>2.0000e-005</b>	<b>0.0447</b>	<b>0.0000</b>	<b>3.2341</b>	<b>3.2341</b>	<b>8.0000e-005</b>	<b>1.0000e-004</b>	<b>3.2659</b>

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1257	0.0000	0.1257	0.0668	0.0000	0.0668	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.4171	0.3055	5.9000e-004		0.0188	0.0188		0.0173	0.0173	0.0000	52.1095	52.1095	0.0169	0.0000	52.5309
<b>Total</b>	<b>0.0390</b>	<b>0.4171</b>	<b>0.3055</b>	<b>5.9000e-004</b>	<b>0.1257</b>	<b>0.0188</b>	<b>0.1446</b>	<b>0.0668</b>	<b>0.0173</b>	<b>0.0841</b>	<b>0.0000</b>	<b>52.1095</b>	<b>52.1095</b>	<b>0.0169</b>	<b>0.0000</b>	<b>52.5309</b>

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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**3.3 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3000e-004	9.1100e-003	1.9500e-003	3.0000e-005	0.1273	8.0000e-005	0.1273	0.0129	8.0000e-005	0.0129	0.0000	3.3083	3.3083	3.0000e-005	5.2000e-004	3.4642
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	2.3300e-003	2.2300e-003	0.0222	6.0000e-005	1.0402	4.0000e-005	1.0402	0.1048	3.0000e-005	0.1048	0.0000	5.3901	5.3901	1.3000e-004	1.7000e-004	5.4432
<b>Total</b>	<b>2.5600e-003</b>	<b>0.0113</b>	<b>0.0242</b>	<b>9.0000e-005</b>	<b>1.1674</b>	<b>1.2000e-004</b>	<b>1.1675</b>	<b>0.1177</b>	<b>1.1000e-004</b>	<b>0.1178</b>	<b>0.0000</b>	<b>8.6984</b>	<b>8.6984</b>	<b>1.6000e-004</b>	<b>6.9000e-004</b>	<b>8.9074</b>

**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					0.1257	0.0000	0.1257	0.0668	0.0000	0.0668	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.4171	0.3055	5.9000e-004		0.0188	0.0188		0.0173	0.0173	0.0000	52.1095	52.1095	0.0169	0.0000	52.5308
<b>Total</b>	<b>0.0390</b>	<b>0.4171</b>	<b>0.3055</b>	<b>5.9000e-004</b>	<b>0.1257</b>	<b>0.0188</b>	<b>0.1446</b>	<b>0.0668</b>	<b>0.0173</b>	<b>0.0841</b>	<b>0.0000</b>	<b>52.1095</b>	<b>52.1095</b>	<b>0.0169</b>	<b>0.0000</b>	<b>52.5308</b>

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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 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3000e-004	9.1100e-003	1.9500e-003	3.0000e-005	0.0902	8.0000e-005	0.0903	9.1500e-003	8.0000e-005	9.2300e-003	0.0000	3.3083	3.3083	3.0000e-005	5.2000e-004	3.4642
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	2.3300e-003	2.2300e-003	0.0222	6.0000e-005	0.7372	4.0000e-005	0.7372	0.0745	3.0000e-005	0.0745	0.0000	5.3901	5.3901	1.3000e-004	1.7000e-004	5.4432
<b>Total</b>	<b>2.5600e-003</b>	<b>0.0113</b>	<b>0.0242</b>	<b>9.0000e-005</b>	<b>0.8274</b>	<b>1.2000e-004</b>	<b>0.8275</b>	<b>0.0837</b>	<b>1.1000e-004</b>	<b>0.0838</b>	<b>0.0000</b>	<b>8.6984</b>	<b>8.6984</b>	<b>1.6000e-004</b>	<b>6.9000e-004</b>	<b>8.9074</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0128	0.1171	0.1227	2.0000e-004		6.0700e-003	6.0700e-003		5.7100e-003	5.7100e-003	0.0000	17.3794	17.3794	4.1600e-003	0.0000	17.4835
<b>Total</b>	<b>0.0128</b>	<b>0.1171</b>	<b>0.1227</b>	<b>2.0000e-004</b>		<b>6.0700e-003</b>	<b>6.0700e-003</b>		<b>5.7100e-003</b>	<b>5.7100e-003</b>	<b>0.0000</b>	<b>17.3794</b>	<b>17.3794</b>	<b>4.1600e-003</b>	<b>0.0000</b>	<b>17.4835</b>

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	5.6000e-004	0.0160	3.1700e-003	6.0000e-005	0.2604	1.9000e-004	0.2606	0.0263	1.8000e-004	0.0265	0.0000	5.9681	5.9681	4.0000e-005	8.8000e-004	6.2324
Worker	1.1600e-003	1.1100e-003	0.0111	3.0000e-005	0.5201	2.0000e-005	0.5201	0.0524	2.0000e-005	0.0524	0.0000	2.6950	2.6950	7.0000e-005	8.0000e-005	2.7216
<b>Total</b>	<b>1.7200e-003</b>	<b>0.0171</b>	<b>0.0143</b>	<b>9.0000e-005</b>	<b>0.7805</b>	<b>2.1000e-004</b>	<b>0.7807</b>	<b>0.0787</b>	<b>2.0000e-004</b>	<b>0.0789</b>	<b>0.0000</b>	<b>8.6632</b>	<b>8.6632</b>	<b>1.1000e-004</b>	<b>9.6000e-004</b>	<b>8.9540</b>

**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	0.0128	0.1171	0.1227	2.0000e-004		6.0700e-003	6.0700e-003		5.7100e-003	5.7100e-003	0.0000	17.3794	17.3794	4.1600e-003	0.0000	17.4835
<b>Total</b>	<b>0.0128</b>	<b>0.1171</b>	<b>0.1227</b>	<b>2.0000e-004</b>		<b>6.0700e-003</b>	<b>6.0700e-003</b>		<b>5.7100e-003</b>	<b>5.7100e-003</b>	<b>0.0000</b>	<b>17.3794</b>	<b>17.3794</b>	<b>4.1600e-003</b>	<b>0.0000</b>	<b>17.4835</b>

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	5.6000e-004	0.0160	3.1700e-003	6.0000e-005	0.1847	1.9000e-004	0.1849	0.0188	1.8000e-004	0.0190	0.0000	5.9681	5.9681	4.0000e-005	8.8000e-004	6.2324
Worker	1.1600e-003	1.1100e-003	0.0111	3.0000e-005	0.3686	2.0000e-005	0.3686	0.0373	2.0000e-005	0.0373	0.0000	2.6950	2.6950	7.0000e-005	8.0000e-005	2.7216
<b>Total</b>	<b>1.7200e-003</b>	<b>0.0171</b>	<b>0.0143</b>	<b>9.0000e-005</b>	<b>0.5532</b>	<b>2.1000e-004</b>	<b>0.5534</b>	<b>0.0560</b>	<b>2.0000e-004</b>	<b>0.0562</b>	<b>0.0000</b>	<b>8.6632</b>	<b>8.6632</b>	<b>1.1000e-004</b>	<b>9.6000e-004</b>	<b>8.9540</b>



Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
City Park	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
City Park	0.00	0.00	0.00	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
City Park	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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



Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

**5.3 Energy by Land Use - Electricity**

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.0000e-003	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-004
Unmitigated	8.0000e-003	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.9900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-004
<b>Total</b>	<b>8.0000e-003</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9000e-004</b>

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.9900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-004	1.8000e-004	0.0000	0.0000	1.9000e-004
<b>Total</b>	<b>8.0000e-003</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	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			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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



Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Malakoff Diggins SHP Sediment Control BMP Plan - Nevada County, Annual

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

**10.0 Stationary Equipment**

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**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**

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