

Appendix A

Air Quality Modeling Data

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Annual

Sacramento Suburban Water District (SSWD) Well 80
Sacramento Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	47.92	1000sqft	1.10	47,920.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	132.43	CH4 Intensity (lb/MW hr)	0.1	N2O Intensity (lb/MW hr)	0.001

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Utility GHG emissions factor interpolated between 453.2 lbCO₂/Mwh reported for 2019 and 0 lbCo₂/MWh assumed for 2045, under SB100.

Land Use -

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Bore/Drill Rigs will be required for construction of the well. Since the drilling phase will be 24 hours and 7 days a week, the grading and site preparation phase equipment are considered to be working 24 hours a day.

Off-road Equipment -

Off-road Equipment - Since the drilling phase will be 24 hours and 7 days a week, the grading and site preparation phase equipment are considered to be working 24 hours a day.

Trips and VMT -

Grading -

Architectural Coating -

Vehicle Trips - The project anticipates requirement of two staff trips per week for maintenance of the well and operation of the chlorination facility and one staff for chemical delivery trip per week.

Vehicle Emission Factors - Using EMFAC 2021 emission factors.

Vehicle Emission Factors - Using EMFAC 2021 emission factors.

Vehicle Emission Factors - Using EMFAC 2021 emission factors.

Area Coating -

Energy Use - Adjusted energy values for Title 24 2019 Energy Efficiency standards.

Fleet Mix -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	T24E	3.41	3.24
tblEnergyUse	T24NG	23.39	22.22
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	7.00	24.00
tblOffRoadEquipment	UsageHours	7.00	24.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.1
tblProjectCharacteristics	CO2IntensityFactor	590.31	132.43
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.001
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.60

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2021	6-30-2021	0.5309	0.5309
2	7-1-2021	9-30-2021	0.3621	0.3621
3	10-1-2021	12-31-2021	0.3627	0.3627
4	1-1-2022	3-31-2022	0.3140	0.3140
		Highest	0.5309	0.5309

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2094	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-004
Energy	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	131.7877	131.7877	0.0343	1.9500e-003	133.2270
Mobile	6.1300e-003	0.0369	0.0723	2.8000e-004	0.0224	2.1000e-004	0.0226	6.0100e-003	2.0000e-004	6.2100e-003	0.0000	25.8381	25.8381	1.0800e-003	0.0000	25.8652
Waste						0.0000	0.0000		0.0000	0.0000	12.0617	0.0000	12.0617	0.7128	0.0000	29.8824
Water						0.0000	0.0000		0.0000	0.0000	3.5157	3.6019	7.1175	0.3638	8.5500e-003	18.7617
Total	0.2245	0.1182	0.1410	7.7000e-004	0.0224	6.3900e-003	0.0288	6.0100e-003	6.3800e-003	0.0124	15.5774	161.2286	176.8059	1.1120	0.0105	207.7372

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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	0.2094	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-004
Energy	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	131.7877	131.7877	0.0343	1.9500e-003	133.2270
Mobile	6.1300e-003	0.0369	0.0723	2.8000e-004	0.0224	2.1000e-004	0.0226	6.0100e-003	2.0000e-004	6.2100e-003	0.0000	25.8381	25.8381	1.0800e-003	0.0000	25.8652
Waste						0.0000	0.0000		0.0000	0.0000	12.0617	0.0000	12.0617	0.7128	0.0000	29.8824
Water						0.0000	0.0000		0.0000	0.0000	3.5157	3.6019	7.1175	0.3638	8.5500e-003	18.7617
Total	0.2245	0.1182	0.1410	7.7000e-004	0.0224	6.3900e-003	0.0288	6.0100e-003	6.3800e-003	0.0124	15.5774	161.2286	176.8059	1.1120	0.0105	207.7372

	ROG	NOx	CO	SO2	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

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/1/2021	4/2/2021	7	2	
2	Grading	Grading	4/3/2021	4/6/2021	7	4	
3	Building Construction	Building Construction	4/9/2021	1/13/2022	5	200	
4	Paving	Paving	1/14/2022	1/27/2022	5	10	
5	Architectural Coating	Architectural Coating	1/28/2022	2/10/2022	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 71,880; Non-Residential Outdoor: 23,960; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	24.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	24.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Grading	Bore/Drill Rigs	1	24.00	221	0.50
Grading	Graders	1	24.00	187	0.41
Grading	Rubber Tired Dozers	1	24.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	20.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

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					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0600e-003	0.0564	0.0242	5.0000e-005		2.5000e-003	2.5000e-003		2.3000e-003	2.3000e-003	0.0000	4.8170	4.8170	1.5600e-003	0.0000	4.8559
Total	5.0600e-003	0.0564	0.0242	5.0000e-005	5.8000e-003	2.5000e-003	8.3000e-003	2.9500e-003	2.3000e-003	5.2500e-003	0.0000	4.8170	4.8170	1.5600e-003	0.0000	4.8559

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3.2 Site Preparation - 2021

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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0544	0.0544	0.0000	0.0000	0.0544
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0544	0.0544	0.0000	0.0000	0.0544

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					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0600e-003	0.0564	0.0242	5.0000e-005		2.5000e-003	2.5000e-003		2.3000e-003	2.3000e-003	0.0000	4.8170	4.8170	1.5600e-003	0.0000	4.8559
Total	5.0600e-003	0.0564	0.0242	5.0000e-005	5.8000e-003	2.5000e-003	8.3000e-003	2.9500e-003	2.3000e-003	5.2500e-003	0.0000	4.8170	4.8170	1.5600e-003	0.0000	4.8559

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3.2 Site Preparation - 2021

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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0544	0.0544	0.0000	0.0000	0.0544
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0544	0.0544	0.0000	0.0000	0.0544

3.3 Grading - 2021

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					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0117	0.1309	0.0608	1.7000e-004		5.5400e-003	5.5400e-003		5.1000e-003	5.1000e-003	0.0000	14.5984	14.5984	4.7200e-003	0.0000	14.7165
Total	0.0117	0.1309	0.0608	1.7000e-004	9.8300e-003	5.5400e-003	0.0154	5.0500e-003	5.1000e-003	0.0102	0.0000	14.5984	14.5984	4.7200e-003	0.0000	14.7165

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3.3 Grading - 2021

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	7.0000e-005	5.0000e-005	5.4000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1359	0.1359	0.0000	0.0000	0.1360
Total	7.0000e-005	5.0000e-005	5.4000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1359	0.1359	0.0000	0.0000	0.1360

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					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0117	0.1309	0.0608	1.7000e-004		5.5400e-003	5.5400e-003		5.1000e-003	5.1000e-003	0.0000	14.5984	14.5984	4.7200e-003	0.0000	14.7164
Total	0.0117	0.1309	0.0608	1.7000e-004	9.8300e-003	5.5400e-003	0.0154	5.0500e-003	5.1000e-003	0.0102	0.0000	14.5984	14.5984	4.7200e-003	0.0000	14.7164

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3.3 Grading - 2021

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	7.0000e-005	5.0000e-005	5.4000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1359	0.1359	0.0000	0.0000	0.1360
Total	7.0000e-005	5.0000e-005	5.4000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1359	0.1359	0.0000	0.0000	0.1360

3.4 Building Construction - 2021

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	0.0864	0.8699	0.7395	1.3700e-003		0.0441	0.0441		0.0419	0.0419	0.0000	119.4528	119.4528	0.0239	0.0000	120.0510
Total	0.0864	0.8699	0.7395	1.3700e-003		0.0441	0.0441		0.0419	0.0419	0.0000	119.4528	119.4528	0.0239	0.0000	120.0510

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3.4 Building Construction - 2021

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	2.5300e-003	0.0826	0.0181	2.1000e-004	5.0100e-003	2.3000e-004	5.2400e-003	1.4500e-003	2.2000e-004	1.6700e-003	0.0000	20.3788	20.3788	1.1100e-003	0.0000	20.4066
Worker	6.9900e-003	4.8800e-003	0.0514	1.4000e-004	0.0151	1.0000e-004	0.0152	4.0100e-003	1.0000e-004	4.1100e-003	0.0000	12.9806	12.9806	3.6000e-004	0.0000	12.9895
Total	9.5200e-003	0.0875	0.0695	3.5000e-004	0.0201	3.3000e-004	0.0204	5.4600e-003	3.2000e-004	5.7800e-003	0.0000	33.3594	33.3594	1.4700e-003	0.0000	33.3960

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	0.0864	0.8699	0.7395	1.3700e-003		0.0441	0.0441		0.0419	0.0419	0.0000	119.4526	119.4526	0.0239	0.0000	120.0509
Total	0.0864	0.8699	0.7395	1.3700e-003		0.0441	0.0441		0.0419	0.0419	0.0000	119.4526	119.4526	0.0239	0.0000	120.0509

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3.4 Building Construction - 2021

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	2.5300e-003	0.0826	0.0181	2.1000e-004	5.0100e-003	2.3000e-004	5.2400e-003	1.4500e-003	2.2000e-004	1.6700e-003	0.0000	20.3788	20.3788	1.1100e-003	0.0000	20.4066
Worker	6.9900e-003	4.8800e-003	0.0514	1.4000e-004	0.0151	1.0000e-004	0.0152	4.0100e-003	1.0000e-004	4.1100e-003	0.0000	12.9806	12.9806	3.6000e-004	0.0000	12.9895
Total	9.5200e-003	0.0875	0.0695	3.5000e-004	0.0201	3.3000e-004	0.0204	5.4600e-003	3.2000e-004	5.7800e-003	0.0000	33.3594	33.3594	1.4700e-003	0.0000	33.3960

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	3.6800e-003	0.0365	0.0344	6.0000e-005		1.7900e-003	1.7900e-003		1.7000e-003	1.7000e-003	0.0000	5.6300	5.6300	1.1200e-003	0.0000	5.6580
Total	3.6800e-003	0.0365	0.0344	6.0000e-005		1.7900e-003	1.7900e-003		1.7000e-003	1.7000e-003	0.0000	5.6300	5.6300	1.1200e-003	0.0000	5.6580

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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	1.1000e-004	3.6900e-003	7.8000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.9518	0.9518	5.0000e-005	0.0000	0.9530
Worker	3.1000e-004	2.1000e-004	2.2200e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5896	0.5896	1.0000e-005	0.0000	0.5899
Total	4.2000e-004	3.9000e-003	3.0000e-003	2.0000e-005	9.5000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.5413	1.5413	6.0000e-005	0.0000	1.5430

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.6800e-003	0.0365	0.0344	6.0000e-005		1.7900e-003	1.7900e-003		1.7000e-003	1.7000e-003	0.0000	5.6300	5.6300	1.1200e-003	0.0000	5.6580
Total	3.6800e-003	0.0365	0.0344	6.0000e-005		1.7900e-003	1.7900e-003		1.7000e-003	1.7000e-003	0.0000	5.6300	5.6300	1.1200e-003	0.0000	5.6580

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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	1.1000e-004	3.6900e-003	7.8000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.9518	0.9518	5.0000e-005	0.0000	0.9530
Worker	3.1000e-004	2.1000e-004	2.2200e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5896	0.5896	1.0000e-005	0.0000	0.5899
Total	4.2000e-004	3.9000e-003	3.0000e-003	2.0000e-005	9.5000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	1.5413	1.5413	6.0000e-005	0.0000	1.5430

3.5 Paving - 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	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9315
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9315

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3.5 Paving - 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	2.2000e-004	1.5000e-004	1.6000e-003	0.0000	5.1000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4258	0.4258	1.0000e-005	0.0000	0.4261
Total	2.2000e-004	1.5000e-004	1.6000e-003	0.0000	5.1000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4258	0.4258	1.0000e-005	0.0000	0.4261

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9314
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9314

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3.5 Paving - 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	2.2000e-004	1.5000e-004	1.6000e-003	0.0000	5.1000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4258	0.4258	1.0000e-005	0.0000	0.4261
Total	2.2000e-004	1.5000e-004	1.6000e-003	0.0000	5.1000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4258	0.4258	1.0000e-005	0.0000	0.4261

3.6 Architectural Coating - 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					
Archit. Coating	0.2221					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	0.2231	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787

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3.6 Architectural Coating - 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	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1310	0.1310	0.0000	0.0000	0.1311
Total	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1310	0.1310	0.0000	0.0000	0.1311

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	0.2221					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	0.2231	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787

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3.6 Architectural Coating - 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	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1310	0.1310	0.0000	0.0000	0.1311
Total	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1310	0.1310	0.0000	0.0000	0.1311

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.1300e-003	0.0369	0.0723	2.8000e-004	0.0224	2.1000e-004	0.0226	6.0100e-003	2.0000e-004	6.2100e-003	0.0000	25.8381	25.8381	1.0800e-003	0.0000	25.8652
Unmitigated	6.1300e-003	0.0369	0.0723	2.8000e-004	0.0224	2.1000e-004	0.0226	6.0100e-003	2.0000e-004	6.2100e-003	0.0000	25.8381	25.8381	1.0800e-003	0.0000	25.8652

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	28.75	0.00	0.00	59,958	59,958
Total	28.75	0.00	0.00	59,958	59,958

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	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.546645	0.035890	0.197836	0.113293	0.020769	0.005403	0.022328	0.047186	0.001633	0.001687	0.005655	0.000779	0.000896

5.0 Energy Detail

Historical Energy Use: N

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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	43.2066	43.2066	0.0326	3.3000e-004	44.1194
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	43.2066	43.2066	0.0326	3.3000e-004	44.1194
NaturalGas Mitigated	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	88.5812	88.5812	1.7000e-003	1.6200e-003	89.1076
NaturalGas Unmitigated	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	88.5812	88.5812	1.7000e-003	1.6200e-003	89.1076

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	1.65995e+006	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	88.5812	88.5812	1.7000e-003	1.6200e-003	89.1076
Total		8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	88.5812	88.5812	1.7000e-003	1.6200e-003	89.1076

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	1.65995e+006	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	88.5812	88.5812	1.7000e-003	1.6200e-003	89.1076
Total		8.9500e-003	0.0814	0.0684	4.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	88.5812	88.5812	1.7000e-003	1.6200e-003	89.1076

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	719279	43.2066	0.0326	3.3000e-004	44.1194
Total		43.2066	0.0326	3.3000e-004	44.1194

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	719279	43.2066	0.0326	3.3000e-004	44.1194
Total		43.2066	0.0326	3.3000e-004	44.1194

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2094	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-004
Unmitigated	0.2094	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-004

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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	0.0222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1872					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-004
Total	0.2094	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-004

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	0.0222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1872					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-004
Total	0.2094	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-004

7.0 Water Detail

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7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7.1175	0.3638	8.5500e-003	18.7617
Unmitigated	7.1175	0.3638	8.5500e-003	18.7617

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	11.0815 / 0	7.1175	0.3638	8.5500e-003	18.7617
Total		7.1175	0.3638	8.5500e-003	18.7617

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	11.0815 / 0	7.1175	0.3638	8.5500e-003	18.7617
Total		7.1175	0.3638	8.5500e-003	18.7617

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.0617	0.7128	0.0000	29.8824
Unmitigated	12.0617	0.7128	0.0000	29.8824

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	59.42	12.0617	0.7128	0.0000	29.8824
Total		12.0617	0.7128	0.0000	29.8824

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	59.42	12.0617	0.7128	0.0000	29.8824
Total		12.0617	0.7128	0.0000	29.8824

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

Sacramento Suburban Water District (SSWD) Well 80
Sacramento Valley Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	47.92	1000sqft	1.10	47,920.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	65
Climate Zone	6			Operational Year	2023
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	132.43	CH4 Intensity (lb/MW hr)	0.1	N2O Intensity (lb/MW hr)	0.001

1.3 User Entered Comments & Non-Default Data

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

Project Characteristics - Utility GHG emissions factor interpolated between 453.2 lbCO₂/Mwh reported for 2019 and 0 lbCo₂/MWh assumed for 2045, under SB100.

Land Use -

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Bore/Drill Rigs will be required for construction of the well. Since the drilling phase will be 24 hours and 7 days a week, the grading and site preparation phase equipment are considered to be working 24 hours a day.

Off-road Equipment -

Off-road Equipment - Since the drilling phase will be 24 hours and 7 days a week, the grading and site preparation phase equipment are considered to be working 24 hours a day.

Trips and VMT -

Grading -

Architectural Coating -

Vehicle Trips - The project anticipates requirement of two staff trips per week for maintenance of the well and operation of the chlorination facility and one staff for chemical delivery trip per week.

Vehicle Emission Factors - Using EMFAC 2021 emission factors.

Vehicle Emission Factors - Using EMFAC 2021 emission factors.

Vehicle Emission Factors - Using EMFAC 2021 emission factors.

Area Coating -

Energy Use - Adjusted energy values for Title 24 2019 Energy Efficiency standards.

Fleet Mix -

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	T24E	3.41	3.24
tblEnergyUse	T24NG	23.39	22.22
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	7.00	24.00
tblOffRoadEquipment	UsageHours	7.00	24.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.1
tblProjectCharacteristics	CO2IntensityFactor	590.31	132.43
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.001
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.60

2.0 Emissions Summary

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

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	1.1476	4.0000e-005	4.8900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
Energy	0.0490	0.4459	0.3745	2.6800e-003		0.0339	0.0339		0.0339	0.0339		535.0359	535.0359	0.0103	9.8100e-003	538.2153
Mobile	0.0588	0.2751	0.6250	2.3100e-003	0.1789	1.6300e-003	0.1805	0.0479	1.5200e-003	0.0494		234.9482	234.9482	9.3600e-003		235.1823
Total	1.2555	0.7210	1.0045	4.9900e-003	0.1789	0.0355	0.2144	0.0479	0.0354	0.0833		769.9946	769.9946	0.0196	9.8100e-003	773.4088

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	1.1476	4.0000e-005	4.8900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
Energy	0.0490	0.4459	0.3745	2.6800e-003		0.0339	0.0339		0.0339	0.0339		535.0359	535.0359	0.0103	9.8100e-003	538.2153
Mobile	0.0588	0.2751	0.6250	2.3100e-003	0.1789	1.6300e-003	0.1805	0.0479	1.5200e-003	0.0494		234.9482	234.9482	9.3600e-003		235.1823
Total	1.2555	0.7210	1.0045	4.9900e-003	0.1789	0.0355	0.2144	0.0479	0.0354	0.0833		769.9946	769.9946	0.0196	9.8100e-003	773.4088

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/1/2021	4/2/2021	7	2	
2	Grading	Grading	4/3/2021	4/6/2021	7	4	
3	Building Construction	Building Construction	4/9/2021	1/13/2022	5	200	
4	Paving	Paving	1/14/2022	1/27/2022	5	10	
5	Architectural Coating	Architectural Coating	1/28/2022	2/10/2022	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 71,880; Non-Residential Outdoor: 23,960; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	24.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	24.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Grading	Bore/Drill Rigs	1	24.00	221	0.50
Grading	Graders	1	24.00	187	0.41
Grading	Rubber Tired Dozers	1	24.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	20.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	5.0598	56.3750	24.1956	0.0548		2.4958	2.4958		2.2961	2.2961		5,309.809 2	5,309.809 2	1.7173		5,352.741 7
Total	5.0598	56.3750	24.1956	0.0548	5.7996	2.4958	8.2954	2.9537	2.2961	5.2498		5,309.809 2	5,309.809 2	1.7173		5,352.741 7

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

3.2 Site Preparation - 2021

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
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
Worker	0.0338	0.0185	0.2542	6.7000e-004	0.0657	4.4000e-004	0.0662	0.0174	4.0000e-004	0.0178		66.3028	66.3028	1.8500e-003		66.3490
Total	0.0338	0.0185	0.2542	6.7000e-004	0.0657	4.4000e-004	0.0662	0.0174	4.0000e-004	0.0178		66.3028	66.3028	1.8500e-003		66.3490

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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	5.0598	56.3750	24.1956	0.0548		2.4958	2.4958		2.2961	2.2961	0.0000	5,309.8091	5,309.8091	1.7173		5,352.7416
Total	5.0598	56.3750	24.1956	0.0548	5.7996	2.4958	8.2954	2.9537	2.2961	5.2498	0.0000	5,309.8091	5,309.8091	1.7173		5,352.7416

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

3.2 Site Preparation - 2021

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
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
Worker	0.0338	0.0185	0.2542	6.7000e-004	0.0657	4.4000e-004	0.0662	0.0174	4.0000e-004	0.0178		66.3028	66.3028	1.8500e-003		66.3490
Total	0.0338	0.0185	0.2542	6.7000e-004	0.0657	4.4000e-004	0.0662	0.0174	4.0000e-004	0.0178		66.3028	66.3028	1.8500e-003		66.3490

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	5.8343	65.4433	30.4175	0.0831		2.7707	2.7707		2.5490	2.5490		8,045.9964	8,045.9964	2.6022		8,111.0523
Total	5.8343	65.4433	30.4175	0.0831	4.9143	2.7707	7.6849	2.5256	2.5490	5.0746		8,045.9964	8,045.9964	2.6022		8,111.0523

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

3.3 Grading - 2021

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
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
Worker	0.0422	0.0232	0.3178	8.3000e-004	0.0822	5.5000e-004	0.0827	0.0218	5.0000e-004	0.0223		82.8785	82.8785	2.3100e-003		82.9363
Total	0.0422	0.0232	0.3178	8.3000e-004	0.0822	5.5000e-004	0.0827	0.0218	5.0000e-004	0.0223		82.8785	82.8785	2.3100e-003		82.9363

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					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	5.8343	65.4433	30.4175	0.0831		2.7707	2.7707		2.5490	2.5490	0.0000	8,045.9964	8,045.9964	2.6022		8,111.0523
Total	5.8343	65.4433	30.4175	0.0831	4.9143	2.7707	7.6849	2.5256	2.5490	5.0746	0.0000	8,045.9964	8,045.9964	2.6022		8,111.0523

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

3.3 Grading - 2021

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
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
Worker	0.0422	0.0232	0.3178	8.3000e-004	0.0822	5.5000e-004	0.0827	0.0218	5.0000e-004	0.0223		82.8785	82.8785	2.3100e-003		82.9363
Total	0.0422	0.0232	0.3178	8.3000e-004	0.0822	5.5000e-004	0.0827	0.0218	5.0000e-004	0.0223		82.8785	82.8785	2.3100e-003		82.9363

3.4 Building Construction - 2021

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	0.9045	9.1094	7.7429	0.0144		0.4620	0.4620		0.4385	0.4385		1,378.7868	1,378.7868	0.2762		1,385.6923
Total	0.9045	9.1094	7.7429	0.0144		0.4620	0.4620		0.4385	0.4385		1,378.7868	1,378.7868	0.2762		1,385.6923

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

3.4 Building Construction - 2021

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
Vendor	0.0260	0.8506	0.1754	2.2700e-003	0.0542	2.3300e-003	0.0565	0.0156	2.2300e-003	0.0178		238.2335	238.2335	0.0122		238.5382
Worker	0.0845	0.0463	0.6355	1.6600e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		165.7571	165.7571	4.6200e-003		165.8725
Total	0.1104	0.8969	0.8109	3.9300e-003	0.2185	3.4300e-003	0.2219	0.0592	3.2400e-003	0.0624		403.9906	403.9906	0.0168		404.4107

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	0.9045	9.1094	7.7429	0.0144		0.4620	0.4620		0.4385	0.4385	0.0000	1,378.7868	1,378.7868	0.2762		1,385.6923
Total	0.9045	9.1094	7.7429	0.0144		0.4620	0.4620		0.4385	0.4385	0.0000	1,378.7868	1,378.7868	0.2762		1,385.6923

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

3.4 Building Construction - 2021

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
Vendor	0.0260	0.8506	0.1754	2.2700e-003	0.0542	2.3300e-003	0.0565	0.0156	2.2300e-003	0.0178		238.2335	238.2335	0.0122		238.5382
Worker	0.0845	0.0463	0.6355	1.6600e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		165.7571	165.7571	4.6200e-003		165.8725
Total	0.1104	0.8969	0.8109	3.9300e-003	0.2185	3.4300e-003	0.2219	0.0592	3.2400e-003	0.0624		403.9906	403.9906	0.0168		404.4107

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	lb/day										lb/day					
Off-Road	0.8185	8.1144	7.6390	0.0144		0.3972	0.3972		0.3772	0.3772		1,379.1097	1,379.1097	0.2741		1,385.9629
Total	0.8185	8.1144	7.6390	0.0144		0.3972	0.3972		0.3772	0.3772		1,379.1097	1,379.1097	0.2741		1,385.9629

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

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	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
Vendor	0.0240	0.8066	0.1608	2.2500e-003	0.0542	2.0100e-003	0.0562	0.0156	1.9200e-003	0.0175		236.1460	236.1460	0.0117		236.4395
Worker	0.0786	0.0415	0.5829	1.6000e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		159.7664	159.7664	4.1300e-003		159.8696
Total	0.1026	0.8481	0.7437	3.8500e-003	0.2185	3.0800e-003	0.2215	0.0592	2.9000e-003	0.0621		395.9124	395.9124	0.0159		396.3092

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	0.8185	8.1144	7.6390	0.0144		0.3972	0.3972		0.3772	0.3772	0.0000	1,379.1097	1,379.1097	0.2741		1,385.9629
Total	0.8185	8.1144	7.6390	0.0144		0.3972	0.3972		0.3772	0.3772	0.0000	1,379.1097	1,379.1097	0.2741		1,385.9629

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

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	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
Vendor	0.0240	0.8066	0.1608	2.2500e-003	0.0542	2.0100e-003	0.0562	0.0156	1.9200e-003	0.0175		236.1460	236.1460	0.0117		236.4395
Worker	0.0786	0.0415	0.5829	1.6000e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		159.7664	159.7664	4.1300e-003		159.8696
Total	0.1026	0.8481	0.7437	3.8500e-003	0.2185	3.0800e-003	0.2215	0.0592	2.9000e-003	0.0621		395.9124	395.9124	0.0159		396.3092

3.5 Paving - 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	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

3.5 Paving - 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	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
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
Worker	0.0511	0.0270	0.3789	1.0400e-003	0.1068	6.9000e-004	0.1075	0.0283	6.4000e-004	0.0290		103.8482	103.8482	2.6800e-003		103.9153
Total	0.0511	0.0270	0.3789	1.0400e-003	0.1068	6.9000e-004	0.1075	0.0283	6.4000e-004	0.0290		103.8482	103.8482	2.6800e-003		103.9153

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	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

3.5 Paving - 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	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
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
Worker	0.0511	0.0270	0.3789	1.0400e-003	0.1068	6.9000e-004	0.1075	0.0283	6.4000e-004	0.0290		103.8482	103.8482	2.6800e-003		103.9153
Total	0.0511	0.0270	0.3789	1.0400e-003	0.1068	6.9000e-004	0.1075	0.0283	6.4000e-004	0.0290		103.8482	103.8482	2.6800e-003		103.9153

3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	44.4218					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	44.6264	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

3.6 Architectural Coating - 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	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
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
Worker	0.0157	8.3000e-003	0.1166	3.2000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		31.9533	31.9533	8.3000e-004		31.9739
Total	0.0157	8.3000e-003	0.1166	3.2000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		31.9533	31.9533	8.3000e-004		31.9739

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	44.4218					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	44.6264	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

3.6 Architectural Coating - 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	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
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
Worker	0.0157	8.3000e-003	0.1166	3.2000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		31.9533	31.9533	8.3000e-004		31.9739
Total	0.0157	8.3000e-003	0.1166	3.2000e-004	0.0329	2.1000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		31.9533	31.9533	8.3000e-004		31.9739

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0588	0.2751	0.6250	2.3100e-003	0.1789	1.6300e-003	0.1805	0.0479	1.5200e-003	0.0494		234.9482	234.9482	9.3600e-003		235.1823
Unmitigated	0.0588	0.2751	0.6250	2.3100e-003	0.1789	1.6300e-003	0.1805	0.0479	1.5200e-003	0.0494		234.9482	234.9482	9.3600e-003		235.1823

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	28.75	0.00	0.00	59,958	59,958
Total	28.75	0.00	0.00	59,958	59,958

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	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.546645	0.035890	0.197836	0.113293	0.020769	0.005403	0.022328	0.047186	0.001633	0.001687	0.005655	0.000779	0.000896

5.0 Energy Detail

Historical Energy Use: N

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0490	0.4459	0.3745	2.6800e-003		0.0339	0.0339		0.0339	0.0339		535.0359	535.0359	0.0103	9.8100e-003	538.2153
NaturalGas Unmitigated	0.0490	0.4459	0.3745	2.6800e-003		0.0339	0.0339		0.0339	0.0339		535.0359	535.0359	0.0103	9.8100e-003	538.2153

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	4547.8	0.0490	0.4459	0.3745	2.6800e-003		0.0339	0.0339		0.0339	0.0339		535.0359	535.0359	0.0103	9.8100e-003	538.2153
Total		0.0490	0.4459	0.3745	2.6800e-003		0.0339	0.0339		0.0339	0.0339		535.0359	535.0359	0.0103	9.8100e-003	538.2153

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	4.5478	0.0490	0.4459	0.3745	2.6800e-003		0.0339	0.0339		0.0339	0.0339		535.0359	535.0359	0.0103	9.8100e-003	538.2153
Total		0.0490	0.4459	0.3745	2.6800e-003		0.0339	0.0339		0.0339	0.0339		535.0359	535.0359	0.0103	9.8100e-003	538.2153

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1476	4.0000e-005	4.8900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
Unmitigated	1.1476	4.0000e-005	4.8900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

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	0.1217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0255					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5000e-004	4.0000e-005	4.8900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
Total	1.1476	4.0000e-005	4.8900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112

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	0.1217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0255					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.5000e-004	4.0000e-005	4.8900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112
Total	1.1476	4.0000e-005	4.8900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0105	0.0105	3.0000e-005		0.0112

7.0 Water Detail

Sacramento Suburban Water District (SSWD) Well 80 - Sacramento Valley Air Basin, Summer

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

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
