

Appendix A

CalEEMod Air Quality and GHG Modeling

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

Global Water Farms Pilot Project

Salton Sea Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	13.48	1000sqft	2.00	13,484.00	0
Other Non-Asphalt Surfaces	1.34	1000sqft	0.78	1,342.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.4	Precipitation Freq (Days)	20
Climate Zone	15			Operational Year	2023
Utility Company					
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - The project is located in unincorporated Riverside County near Niland. It is just above the County line of Imperial. The project will not be connected to utilities. Construction will take 4 months and assumed to start in 2023.

Land Use - The project includes a 13,484 SF building and 1,342 SF concrete surface. The rest are assumed to be pervious per the project engineer. The total site area including pipeline footprint is 2.78 acres.

Construction Phase - The site is vacant and no demolition is required. Site prep is assumed to take longer for vegetation clearance, also for grading. Pipeline building assumed to be included in each phase.

Trips and VMT - Assume all construction trips originate at Coachella, around 45 miles away.

On-road Fugitive Dust - Assume vendor, worker and hauling all originates from Coachella. The total route is 43.5 miles, last 1.5 miles is unpaved. 95% is a conservative estimate for paved areas.

Grading - acreage adjusted per site area. Materials will balance onsite.

Vehicle Trips - Assume commute distance is from Coachella about 45 miles. C-NW: Delivery to National Chloride in Amboy is just under 160 miles. Trip rates adjusted to be conservative and reflect 5 truck deliveries per week, up to 2 full time employees every day and a tour every other week.

Road Dust - similar assumption as construction route paved area percentage.

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

Energy Use - The project will not be connected to grid, but instead uses onsite solar power and propane gas.

Water And Wastewater - The project will not receive municipal water supply, but use water from an onsite well.

Construction Off-road Equipment Mitigation - SCAQMD rule 403.1 requires watering exposed area.

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers - Propane use of 1,000 gallons per month, equivalent to 91 mmBtu of natural gas.

Stationary Sources - User Defined -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Stationary Sources - Process Boilers EF -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	3.00	15.00
tblConstructionPhase	NumDays	6.00	15.00
tblConstructionPhase	NumDays	220.00	35.00
tblConstructionPhase	NumDays	10.00	14.00
tblConstructionPhase	NumDays	10.00	6.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	1.97	0.00
tblEnergyUse	T24NG	15.20	0.00
tblGrading	AcresOfGrading	15.00	6.00
tblGrading	AcresOfGrading	22.50	4.50
tblLandUse	LandUseSquareFeet	13,480.00	13,484.00
tblLandUse	LandUseSquareFeet	1,340.00	1,342.00
tblLandUse	LotAcreage	0.31	2.00
tblLandUse	LotAcreage	0.03	0.78
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	50	95
tblStationaryBoilersUse	AnnualHeatInput	0.00	1,092.00
tblStationaryBoilersUse	DailyHeatInput	0.00	3.03
tblStationaryBoilersUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	WorkerTripLength	14.60	45.00
tblTripsAndVMT	WorkerTripLength	14.60	45.00

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

tblTripsAndVMT	WorkerTripLength	14.60	45.00
tblTripsAndVMT	WorkerTripLength	14.60	45.00
tblTripsAndVMT	WorkerTripLength	14.60	45.00
tblVehicleTrips	CC_TL	6.20	45.00
tblVehicleTrips	CNW_TL	6.20	160.00
tblVehicleTrips	CNW_TTP	13.00	5.00
tblVehicleTrips	CW_TL	13.80	45.00
tblVehicleTrips	CW_TTP	59.00	67.00
tblVehicleTrips	ST_TR	6.42	1.00
tblVehicleTrips	SU_TR	5.09	1.00
tblVehicleTrips	WD_TR	3.93	1.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	3,117,250.00	0.00

2.0 Emissions Summary

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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	1-1-2023	3-31-2023	0.5079	0.5079
2	4-1-2023	6-30-2023	0.1871	0.1871
		Highest	0.5079	0.5079

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	0.0622	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-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	0.0200	0.0482	0.3275	8.6000e-004	4.4053	6.4000e-004	4.4059	0.4529	6.0000e-004	0.4535	0.0000	79.0075	79.0075	2.8200e-003	3.4100e-003	80.0955
Stationary	2.9400e-003	0.0131	0.0525	3.2000e-004		4.0700e-003	4.0700e-003		4.0700e-003	4.0700e-003	0.0000	58.2743	58.2743	1.1200e-003	0.0000	58.3022
Waste						0.0000	0.0000		0.0000	0.0000	3.3940	0.0000	3.3940	0.2006	0.0000	8.4085
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0851	0.0613	0.3801	1.1800e-003	4.4053	4.7100e-003	4.4100	0.4529	4.6700e-003	0.4576	3.3940	137.2821	140.6761	0.2045	3.4100e-003	146.8065

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0622	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-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	0.0200	0.0482	0.3275	8.6000e-004	4.4053	6.4000e-004	4.4059	0.4529	6.0000e-004	0.4535	0.0000	79.0075	79.0075	2.8200e-003	3.4100e-003	80.0955
Stationary	2.9400e-003	0.0131	0.0525	3.2000e-004		4.0700e-003	4.0700e-003		4.0700e-003	4.0700e-003	0.0000	58.2743	58.2743	1.1200e-003	0.0000	58.3022
Waste						0.0000	0.0000		0.0000	0.0000	3.3940	0.0000	3.3940	0.2006	0.0000	8.4085
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0851	0.0613	0.3801	1.1800e-003	4.4053	4.7100e-003	4.4100	0.4529	4.6700e-003	0.4576	3.3940	137.2821	140.6761	0.2045	3.4100e-003	146.8065

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	1/20/2023	5	15	
2	Grading	Grading	1/21/2023	2/10/2023	5	15	

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

3	Building Construction	Building Construction	2/11/2023	3/31/2023	5	35
4	Paving	Paving	4/1/2023	4/20/2023	5	14
5	Architectural Coating	Architectural Coating	4/21/2023	4/30/2023	5	6

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0.78

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 20,226; Non-Residential Outdoor: 6,742; Striped Parking Area: 81 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
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
Building Construction	Cranes	1	8.00	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
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

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

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	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	6.00	2.00	0.00	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7700e-003	0.1071	0.0734	1.8000e-004		4.0600e-003	4.0600e-003		3.7400e-003	3.7400e-003	0.0000	16.1583	16.1583	5.2300e-003	0.0000	16.2890
Total	9.7700e-003	0.1071	0.0734	1.8000e-004	2.3900e-003	4.0600e-003	6.4500e-003	2.6000e-004	3.7400e-003	4.0000e-003	0.0000	16.1583	16.1583	5.2300e-003	0.0000	16.2890

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	5.7000e-004	4.6000e-004	6.0700e-003	2.0000e-005	0.1897	1.0000e-005	0.1897	0.0193	1.0000e-005	0.0193	0.0000	1.5569	1.5569	3.0000e-005	4.0000e-005	1.5688
Total	5.7000e-004	4.6000e-004	6.0700e-003	2.0000e-005	0.1897	1.0000e-005	0.1897	0.0193	1.0000e-005	0.0193	0.0000	1.5569	1.5569	3.0000e-005	4.0000e-005	1.5688

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					9.3000e-004	0.0000	9.3000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7700e-003	0.1071	0.0734	1.8000e-004		4.0600e-003	4.0600e-003		3.7400e-003	3.7400e-003	0.0000	16.1583	16.1583	5.2300e-003	0.0000	16.2889
Total	9.7700e-003	0.1071	0.0734	1.8000e-004	9.3000e-004	4.0600e-003	4.9900e-003	1.0000e-004	3.7400e-003	3.8400e-003	0.0000	16.1583	16.1583	5.2300e-003	0.0000	16.2889

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	5.7000e-004	4.6000e-004	6.0700e-003	2.0000e-005	0.1897	1.0000e-005	0.1897	0.0193	1.0000e-005	0.0193	0.0000	1.5569	1.5569	3.0000e-005	4.0000e-005	1.5688
Total	5.7000e-004	4.6000e-004	6.0700e-003	2.0000e-005	0.1897	1.0000e-005	0.1897	0.0193	1.0000e-005	0.0193	0.0000	1.5569	1.5569	3.0000e-005	4.0000e-005	1.5688

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0484	0.0000	0.0484	0.0252	0.0000	0.0252	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0100	0.1085	0.0653	1.5000e-004		4.5300e-003	4.5300e-003		4.1700e-003	4.1700e-003	0.0000	13.5779	13.5779	4.3900e-003	0.0000	13.6877
Total	0.0100	0.1085	0.0653	1.5000e-004	0.0484	4.5300e-003	0.0529	0.0252	4.1700e-003	0.0293	0.0000	13.5779	13.5779	4.3900e-003	0.0000	13.6877

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	7.1000e-004	5.8000e-004	7.5800e-003	2.0000e-005	0.2372	1.0000e-005	0.2372	0.0241	1.0000e-005	0.0241	0.0000	1.9461	1.9461	3.0000e-005	5.0000e-005	1.9610
Total	7.1000e-004	5.8000e-004	7.5800e-003	2.0000e-005	0.2372	1.0000e-005	0.2372	0.0241	1.0000e-005	0.0241	0.0000	1.9461	1.9461	3.0000e-005	5.0000e-005	1.9610

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					0.0189	0.0000	0.0189	9.8200e-003	0.0000	9.8200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0100	0.1085	0.0653	1.5000e-004		4.5300e-003	4.5300e-003		4.1700e-003	4.1700e-003	0.0000	13.5779	13.5779	4.3900e-003	0.0000	13.6877
Total	0.0100	0.1085	0.0653	1.5000e-004	0.0189	4.5300e-003	0.0234	9.8200e-003	4.1700e-003	0.0140	0.0000	13.5779	13.5779	4.3900e-003	0.0000	13.6877

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	7.1000e-004	5.8000e-004	7.5800e-003	2.0000e-005	0.2372	1.0000e-005	0.2372	0.0241	1.0000e-005	0.0241	0.0000	1.9461	1.9461	3.0000e-005	5.0000e-005	1.9610
Total	7.1000e-004	5.8000e-004	7.5800e-003	2.0000e-005	0.2372	1.0000e-005	0.2372	0.0241	1.0000e-005	0.0241	0.0000	1.9461	1.9461	3.0000e-005	5.0000e-005	1.9610

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0300	0.2384	0.2488	4.4000e-004		0.0107	0.0107		0.0103	0.0103	0.0000	36.3479	36.3479	6.8700e-003	0.0000	36.5197
Total	0.0300	0.2384	0.2488	4.4000e-004		0.0107	0.0107		0.0103	0.0103	0.0000	36.3479	36.3479	6.8700e-003	0.0000	36.5197

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.7000e-004	5.2300e-003	1.3700e-003	4.0000e-005	0.1109	6.0000e-005	0.1110	0.0113	6.0000e-005	0.0114	0.0000	3.5871	3.5871	2.0000e-005	4.9000e-004	3.7347
Worker	1.0000e-003	8.1000e-004	0.0106	3.0000e-005	0.3320	2.0000e-005	0.3320	0.0337	1.0000e-005	0.0337	0.0000	2.7245	2.7245	5.0000e-005	7.0000e-005	2.7454
Total	1.1700e-003	6.0400e-003	0.0120	7.0000e-005	0.4430	8.0000e-005	0.4430	0.0450	7.0000e-005	0.0451	0.0000	6.3116	6.3116	7.0000e-005	5.6000e-004	6.4802

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	0.0300	0.2384	0.2488	4.4000e-004		0.0107	0.0107		0.0103	0.0103	0.0000	36.3478	36.3478	6.8700e-003	0.0000	36.5197
Total	0.0300	0.2384	0.2488	4.4000e-004		0.0107	0.0107		0.0103	0.0103	0.0000	36.3478	36.3478	6.8700e-003	0.0000	36.5197

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.7000e-004	5.2300e-003	1.3700e-003	4.0000e-005	0.1109	6.0000e-005	0.1110	0.0113	6.0000e-005	0.0114	0.0000	3.5871	3.5871	2.0000e-005	4.9000e-004	3.7347
Worker	1.0000e-003	8.1000e-004	0.0106	3.0000e-005	0.3320	2.0000e-005	0.3320	0.0337	1.0000e-005	0.0337	0.0000	2.7245	2.7245	5.0000e-005	7.0000e-005	2.7454
Total	1.1700e-003	6.0400e-003	0.0120	7.0000e-005	0.4430	8.0000e-005	0.4430	0.0450	7.0000e-005	0.0451	0.0000	6.3116	6.3116	7.0000e-005	5.6000e-004	6.4802

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.1600e-003	0.0603	0.0818	1.2000e-004		3.0400e-003	3.0400e-003		2.8000e-003	2.8000e-003	0.0000	10.8590	10.8590	3.4400e-003	0.0000	10.9450
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.1600e-003	0.0603	0.0818	1.2000e-004		3.0400e-003	3.0400e-003		2.8000e-003	2.8000e-003	0.0000	10.8590	10.8590	3.4400e-003	0.0000	10.9450

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-003	8.1000e-004	0.0106	3.0000e-005	0.3320	2.0000e-005	0.3320	0.0337	1.0000e-005	0.0337	0.0000	2.7245	2.7245	5.0000e-005	7.0000e-005	2.7454
Total	1.0000e-003	8.1000e-004	0.0106	3.0000e-005	0.3320	2.0000e-005	0.3320	0.0337	1.0000e-005	0.0337	0.0000	2.7245	2.7245	5.0000e-005	7.0000e-005	2.7454

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	6.1600e-003	0.0603	0.0818	1.2000e-004		3.0400e-003	3.0400e-003		2.8000e-003	2.8000e-003	0.0000	10.8589	10.8589	3.4400e-003	0.0000	10.9450
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.1600e-003	0.0603	0.0818	1.2000e-004		3.0400e-003	3.0400e-003		2.8000e-003	2.8000e-003	0.0000	10.8589	10.8589	3.4400e-003	0.0000	10.9450

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-003	8.1000e-004	0.0106	3.0000e-005	0.3320	2.0000e-005	0.3320	0.0337	1.0000e-005	0.0337	0.0000	2.7245	2.7245	5.0000e-005	7.0000e-005	2.7454
Total	1.0000e-003	8.1000e-004	0.0106	3.0000e-005	0.3320	2.0000e-005	0.3320	0.0337	1.0000e-005	0.0337	0.0000	2.7245	2.7245	5.0000e-005	7.0000e-005	2.7454

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0940					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7000e-004	3.9100e-003	5.4300e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.7660	0.7660	5.0000e-005	0.0000	0.7671
Total	0.0946	3.9100e-003	5.4300e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.7660	0.7660	5.0000e-005	0.0000	0.7671

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	3.0000e-004	0.0000	9.4900e-003	0.0000	9.4900e-003	9.6000e-004	0.0000	9.6000e-004	0.0000	0.0778	0.0778	0.0000	0.0000	0.0784
Total	3.0000e-005	2.0000e-005	3.0000e-004	0.0000	9.4900e-003	0.0000	9.4900e-003	9.6000e-004	0.0000	9.6000e-004	0.0000	0.0778	0.0778	0.0000	0.0000	0.0784

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	0.0940					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7000e-004	3.9100e-003	5.4300e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.7660	0.7660	5.0000e-005	0.0000	0.7671
Total	0.0946	3.9100e-003	5.4300e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.7660	0.7660	5.0000e-005	0.0000	0.7671

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	3.0000e-004	0.0000	9.4900e-003	0.0000	9.4900e-003	9.6000e-004	0.0000	9.6000e-004	0.0000	0.0778	0.0778	0.0000	0.0000	0.0784
Total	3.0000e-005	2.0000e-005	3.0000e-004	0.0000	9.4900e-003	0.0000	9.4900e-003	9.6000e-004	0.0000	9.6000e-004	0.0000	0.0778	0.0778	0.0000	0.0000	0.0784

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0200	0.0482	0.3275	8.6000e-004	4.4053	6.4000e-004	4.4059	0.4529	6.0000e-004	0.4535	0.0000	79.0075	79.0075	2.8200e-003	3.4100e-003	80.0955
Unmitigated	0.0200	0.0482	0.3275	8.6000e-004	4.4053	6.4000e-004	4.4059	0.4529	6.0000e-004	0.4535	0.0000	79.0075	79.0075	2.8200e-003	3.4100e-003	80.0955

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	13.48	13.48	13.48	232,222	232,222
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	13.48	13.48	13.48	232,222	232,222

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
Manufacturing	45.00	45.00	160.00	67.00	28.00	5.00	92	5	3
Other Non-Asphalt Surfaces	13.80	6.20	6.20	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
Manufacturing	0.515135	0.060169	0.185335	0.147842	0.025432	0.007034	0.010598	0.020349	0.000855	0.000237	0.021941	0.000925	0.004146
Other Non-Asphalt Surfaces	0.515135	0.060169	0.185335	0.147842	0.025432	0.007034	0.010598	0.020349	0.000855	0.000237	0.021941	0.000925	0.004146

5.0 Energy Detail

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Manufacturing	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

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0622	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004
Unmitigated	0.0622	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.4000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0528					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	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004
Total	0.0622	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.4000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0528					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	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004
Total	0.0622	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	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			
Manufacturing	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

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Manufacturing	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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.3940	0.2006	0.0000	8.4085
Unmitigated	3.3940	0.2006	0.0000	8.4085

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	16.72	3.3940	0.2006	0.0000	8.4085
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		3.3940	0.2006	0.0000	8.4085

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Manufacturing	16.72	3.3940	0.2006	0.0000	8.4085
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		3.3940	0.2006	0.0000	8.4085

9.0 Operational Offroad

Global Water Farms Pilot Project - Salton Sea Air Basin, Annual

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

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	1	3.03	1092	0	CNG

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	tons/yr										MT/yr					
Boiler - CNG (0 - 2 MMBTU)	2.9400e-003	0.0131	0.0525	3.2000e-004		4.0700e-003	4.0700e-003		4.0700e-003	4.0700e-003	0.0000	58.2743	58.2743	1.1200e-003	0.0000	58.3022
Total	2.9400e-003	0.0131	0.0525	3.2000e-004		4.0700e-003	4.0700e-003		4.0700e-003	4.0700e-003	0.0000	58.2743	58.2743	1.1200e-003	0.0000	58.3022

11.0 Vegetation

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

Global Water Farms Pilot Project

Salton Sea Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	13.48	1000sqft	2.00	13,484.00	0
Other Non-Asphalt Surfaces	1.34	1000sqft	0.78	1,342.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.4	Precipitation Freq (Days)	20
Climate Zone	15			Operational Year	2023
Utility Company					
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - The project is located in unincorporated Riverside County near Niland. It is just above the County line of Imperial. The project will not be connected to utilities. Construction will take 4 months and assumed to start in 2023.

Land Use - The project includes a 13,484 SF building and 1,342 SF concrete surface. The rest are assumed to be pervious per the project engineer. The total site area including pipeline footprint is 2.78 acres.

Construction Phase - The site is vacant and no demolition is required. Site prep is assumed to take longer for vegetation clearance, also for grading. Pipeline building assumed to be included in each phase.

Trips and VMT - Assume all construction trips originate at Coachella, around 45 miles away.

On-road Fugitive Dust - Assume vendor, worker and hauling all originates from Coachella. The total route is 43.5 miles, last 1.5 miles is unpaved. 95% is a conservative estimate for paved areas.

Grading - acreage adjusted per site area. Materials will balance onsite.

Vehicle Trips - Assume commute distance is from Coachella about 45 miles. C-NW: Delivery to National Chloride in Amboy is just under 160 miles. Trip rates adjusted to be conservative and reflect 5 truck deliveries per week, up to 2 full time employees every day and a tour every other week.

Road Dust - similar assumption as construction route paved area percentage.

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

Energy Use - The project will not be connected to grid, but instead uses onsite solar power and propane gas.

Water And Wastewater - The project will not receive municipal water supply, but use water from an onsite well.

Construction Off-road Equipment Mitigation - SCAQMD rule 403.1 requires watering exposed area.

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers - Propane use of 1,000 gallons per month, equivalent to 91 mmBtu of natural gas.

Stationary Sources - User Defined -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Stationary Sources - Process Boilers EF -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	3.00	15.00
tblConstructionPhase	NumDays	6.00	15.00
tblConstructionPhase	NumDays	220.00	35.00
tblConstructionPhase	NumDays	10.00	14.00
tblConstructionPhase	NumDays	10.00	6.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	1.97	0.00
tblEnergyUse	T24NG	15.20	0.00
tblGrading	AcresOfGrading	15.00	6.00
tblGrading	AcresOfGrading	22.50	4.50
tblLandUse	LandUseSquareFeet	13,480.00	13,484.00
tblLandUse	LandUseSquareFeet	1,340.00	1,342.00
tblLandUse	LotAcreage	0.31	2.00
tblLandUse	LotAcreage	0.03	0.78
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	50	95
tblStationaryBoilersUse	AnnualHeatInput	0.00	1,092.00
tblStationaryBoilersUse	DailyHeatInput	0.00	3.03
tblStationaryBoilersUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	WorkerTripLength	14.60	45.00
tblTripsAndVMT	WorkerTripLength	14.60	45.00

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

tblTripsAndVMT	WorkerTripLength	14.60	45.00
tblTripsAndVMT	WorkerTripLength	14.60	45.00
tblTripsAndVMT	WorkerTripLength	14.60	45.00
tblVehicleTrips	CC_TL	6.20	45.00
tblVehicleTrips	CNW_TL	6.20	160.00
tblVehicleTrips	CNW_TTP	13.00	5.00
tblVehicleTrips	CW_TL	13.80	45.00
tblVehicleTrips	CW_TTP	59.00	67.00
tblVehicleTrips	ST_TR	6.42	1.00
tblVehicleTrips	SU_TR	5.09	1.00
tblVehicleTrips	WD_TR	3.93	1.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	3,117,250.00	0.00

2.0 Emissions Summary

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3407	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.2400e-003	3.2400e-003	1.0000e-005		3.4600e-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	0.1243	0.2488	2.1921	5.0600e-003	24.2104	3.5000e-003	24.2139	2.4897	3.2900e-003	2.4930		515.2041	515.2041	0.0179	0.0204	521.7241
Stationary	0.0163	0.0727	0.2911	1.7800e-003		0.0226	0.0226		0.0226	0.0226		356.4767	356.4767	6.8300e-003		356.6475
Total	0.4814	0.3215	2.4847	6.8400e-003	24.2104	0.0261	24.2364	2.4897	0.0259	2.5156		871.6840	871.6840	0.0247	0.0204	878.3750

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3407	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.2400e-003	3.2400e-003	1.0000e-005		3.4600e-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	0.1243	0.2488	2.1921	5.0600e-003	24.2104	3.5000e-003	24.2139	2.4897	3.2900e-003	2.4930		515.2041	515.2041	0.0179	0.0204	521.7241
Stationary	0.0163	0.0727	0.2911	1.7800e-003		0.0226	0.0226		0.0226	0.0226		356.4767	356.4767	6.8300e-003		356.6475
Total	0.4814	0.3215	2.4847	6.8400e-003	24.2104	0.0261	24.2364	2.4897	0.0259	2.5156		871.6840	871.6840	0.0247	0.0204	878.3750

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	1/20/2023	5	15	
2	Grading	Grading	1/21/2023	2/10/2023	5	15	
3	Building Construction	Building Construction	2/11/2023	3/31/2023	5	35	
4	Paving	Paving	4/1/2023	4/20/2023	5	14	

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

5	Architectural Coating	Architectural Coating	4/21/2023	4/30/2023	5	6
---	-----------------------	-----------------------	-----------	-----------	---	---

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0.78

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 20,226; Non-Residential Outdoor: 6,742; Striped Parking Area: 81 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
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
Building Construction	Cranes	1	8.00	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
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

Trips and VMT

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

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	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	6.00	2.00	0.00	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3182	0.0000	0.3182	0.0344	0.0000	0.0344			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	0.3182	0.5419	0.8600	0.0344	0.4985	0.5329		2,374.8634	2,374.8634	0.7681		2,394.0654

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

3.2 Site Preparation - 2023

Unmitigated Construction 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	0.0859	0.0608	1.0372	2.4900e-003	26.7519	1.2300e-003	26.7531	2.7130	1.1400e-003	2.7141		251.2727	251.2727	4.5600e-003	5.5000e-003	253.0257
Total	0.0859	0.0608	1.0372	2.4900e-003	26.7519	1.2300e-003	26.7531	2.7130	1.1400e-003	2.7141		251.2727	251.2727	4.5600e-003	5.5000e-003	253.0257

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					0.1241	0.0000	0.1241	0.0134	0.0000	0.0134			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	0.1241	0.5419	0.6660	0.0134	0.4985	0.5119	0.0000	2,374.8634	2,374.8634	0.7681		2,394.0654

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

3.2 Site Preparation - 2023

Mitigated Construction 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	0.0859	0.0608	1.0372	2.4900e-003	26.7519	1.2300e-003	26.7531	2.7130	1.1400e-003	2.7141		251.2727	251.2727	4.5600e-003	5.5000e-003	253.0257
Total	0.0859	0.0608	1.0372	2.4900e-003	26.7519	1.2300e-003	26.7531	2.7130	1.1400e-003	2.7141		251.2727	251.2727	4.5600e-003	5.5000e-003	253.0257

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4463	0.0000	6.4463	3.3560	0.0000	3.3560			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	6.4463	0.6044	7.0506	3.3560	0.5560	3.9120		1,995.6147	1,995.6147	0.6454		2,011.7503

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

3.3 Grading - 2023

Unmitigated Construction 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	0.1074	0.0760	1.2965	3.1100e-003	33.4399	1.5400e-003	33.4414	3.3913	1.4200e-003	3.3927		314.0908	314.0908	5.6900e-003	6.8800e-003	316.2821
Total	0.1074	0.0760	1.2965	3.1100e-003	33.4399	1.5400e-003	33.4414	3.3913	1.4200e-003	3.3927		314.0908	314.0908	5.6900e-003	6.8800e-003	316.2821

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5141	0.0000	2.5141	1.3089	0.0000	1.3089			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	2.5141	0.6044	3.1184	1.3089	0.5560	1.8649	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

3.3 Grading - 2023

Mitigated Construction 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	0.1074	0.0760	1.2965	3.1100e-003	33.4399	1.5400e-003	33.4414	3.3913	1.4200e-003	3.3927		314.0908	314.0908	5.6900e-003	6.8800e-003	316.2821
Total	0.1074	0.0760	1.2965	3.1100e-003	33.4399	1.5400e-003	33.4414	3.3913	1.4200e-003	3.3927		314.0908	314.0908	5.6900e-003	6.8800e-003	316.2821

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

3.4 Building Construction - 2023

Unmitigated Construction 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	0.2788	0.0785	2.1400e-003	6.7029	3.6200e-003	6.7065	0.6841	3.4600e-003	0.6876		225.9001	225.9001	1.1100e-003	0.0311	235.1845
Worker	0.0645	0.0456	0.7779	1.8600e-003	20.0639	9.2000e-004	20.0648	2.0348	8.5000e-004	2.0356		188.4545	188.4545	3.4200e-003	4.1300e-003	189.7693
Total	0.0743	0.3243	0.8564	4.0000e-003	26.7668	4.5400e-003	26.7714	2.7188	4.3100e-003	2.7232		414.3546	414.3546	4.5300e-003	0.0352	424.9538

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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

3.4 Building Construction - 2023

Mitigated Construction 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	0.2788	0.0785	2.1400e-003	6.7029	3.6200e-003	6.7065	0.6841	3.4600e-003	0.6876		225.9001	225.9001	1.1100e-003	0.0311	235.1845
Worker	0.0645	0.0456	0.7779	1.8600e-003	20.0639	9.2000e-004	20.0648	2.0348	8.5000e-004	2.0356		188.4545	188.4545	3.4200e-003	4.1300e-003	189.7693
Total	0.0743	0.3243	0.8564	4.0000e-003	26.7668	4.5400e-003	26.7714	2.7188	4.3100e-003	2.7232		414.3546	414.3546	4.5300e-003	0.0352	424.9538

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

3.5 Paving - 2023

Unmitigated Construction 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	0.1611	0.1139	1.9448	4.6600e-003	50.1598	2.3100e-003	50.1621	5.0869	2.1300e-003	5.0890		471.1362	471.1362	8.5400e-003	0.0103	474.4232
Total	0.1611	0.1139	1.9448	4.6600e-003	50.1598	2.3100e-003	50.1621	5.0869	2.1300e-003	5.0890		471.1362	471.1362	8.5400e-003	0.0103	474.4232

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	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

3.5 Paving - 2023

Mitigated Construction 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	0.1611	0.1139	1.9448	4.6600e-003	50.1598	2.3100e-003	50.1621	5.0869	2.1300e-003	5.0890		471.1362	471.1362	8.5400e-003	0.0103	474.4232
Total	0.1611	0.1139	1.9448	4.6600e-003	50.1598	2.3100e-003	50.1621	5.0869	2.1300e-003	5.0890		471.1362	471.1362	8.5400e-003	0.0103	474.4232

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.3430					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	31.5347	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

3.6 Architectural Coating - 2023

Unmitigated Construction 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	0.0107	7.6000e-003	0.1297	3.1000e-004	3.3440	1.5000e-004	3.3441	0.3391	1.4000e-004	0.3393		31.4091	31.4091	5.7000e-004	6.9000e-004	31.6282
Total	0.0107	7.6000e-003	0.1297	3.1000e-004	3.3440	1.5000e-004	3.3441	0.3391	1.4000e-004	0.3393		31.4091	31.4091	5.7000e-004	6.9000e-004	31.6282

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	31.3430					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	31.5347	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

3.6 Architectural Coating - 2023

Mitigated Construction 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	0.0107	7.6000e-003	0.1297	3.1000e-004	3.3440	1.5000e-004	3.3441	0.3391	1.4000e-004	0.3393		31.4091	31.4091	5.7000e-004	6.9000e-004	31.6282
Total	0.0107	7.6000e-003	0.1297	3.1000e-004	3.3440	1.5000e-004	3.3441	0.3391	1.4000e-004	0.3393		31.4091	31.4091	5.7000e-004	6.9000e-004	31.6282

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1243	0.2488	2.1921	5.0600e-003	24.2104	3.5000e-003	24.2139	2.4897	3.2900e-003	2.4930		515.2041	515.2041	0.0179	0.0204	521.7241
Unmitigated	0.1243	0.2488	2.1921	5.0600e-003	24.2104	3.5000e-003	24.2139	2.4897	3.2900e-003	2.4930		515.2041	515.2041	0.0179	0.0204	521.7241

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	13.48	13.48	13.48	232,222	232,222
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	13.48	13.48	13.48	232,222	232,222

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
Manufacturing	45.00	45.00	160.00	67.00	28.00	5.00	92	5	3
Other Non-Asphalt Surfaces	13.80	6.20	6.20	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
Manufacturing	0.515135	0.060169	0.185335	0.147842	0.025432	0.007034	0.010598	0.020349	0.000855	0.000237	0.021941	0.000925	0.004146
Other Non-Asphalt Surfaces	0.515135	0.060169	0.185335	0.147842	0.025432	0.007034	0.010598	0.020349	0.000855	0.000237	0.021941	0.000925	0.004146

5.0 Energy Detail

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

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					
Manufacturing	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

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

5.2 Energy by Land Use - NaturalGas

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					
Manufacturing	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

	ROG	NOx	CO	SO2	Fugitive 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	0.3407	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.2400e-003	3.2400e-003	1.0000e-005		3.4600e-003
Unmitigated	0.3407	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.2400e-003	3.2400e-003	1.0000e-005		3.4600e-003

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

6.2 Area by SubCategory

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	0.0515					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2890					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.2400e-003	3.2400e-003	1.0000e-005	3.4600e-003
Total	0.3407	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.2400e-003	3.2400e-003	1.0000e-005	3.4600e-003

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0515					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2890					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.2400e-003	3.2400e-003	1.0000e-005	3.4600e-003
Total	0.3407	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.2400e-003	3.2400e-003	1.0000e-005	3.4600e-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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Global Water Farms Pilot Project - Salton Sea Air Basin, Summer

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

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	1	3.03	1092	0	CNG

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					
Boiler - CNG (0 - 2 MMBTU)	0.0163	0.0727	0.2911	1.7800e-003		0.0226	0.0226		0.0226	0.0226		356.4767	356.4767	6.8300e-003		356.6475
Total	0.0163	0.0727	0.2911	1.7800e-003		0.0226	0.0226		0.0226	0.0226		356.4767	356.4767	6.8300e-003		356.6475

11.0 Vegetation

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

**Global Water Farms Pilot Project
Salton Sea Air Basin, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	13.48	1000sqft	2.00	13,484.00	0
Other Non-Asphalt Surfaces	1.34	1000sqft	0.78	1,342.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.4	Precipitation Freq (Days)	20
Climate Zone	15			Operational Year	2023
Utility Company					
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - The project is located in unincorporated Riverside County near Niland. It is just above the County line of Imperial. The project will not be connected to utilities. Construction will take 4 months and assumed to start in 2023.

Land Use - The project includes a 13,484 SF building and 1,342 SF concrete surface. The rest are assumed to be pervious per the project engineer. The total site area including pipeline footprint is 2.78 acres.

Construction Phase - The site is vacant and no demolition is required. Site prep is assumed to take longer for vegetation clearance, also for grading. Pipeline building assumed to be included in each phase.

Trips and VMT - Assume all construction trips originate at Coachella, around 45 miles away.

On-road Fugitive Dust - Assume vendor, worker and hauling all originates from Coachella. The total route is 43.5 miles, last 1.5 miles is unpaved. 95% is a conservative estimate for paved areas.

Grading - acreage adjusted per site area. Materials will balance onsite.

Vehicle Trips - Assume commute distance is from Coachella about 45 miles. C-NW: Delivery to National Chloride in Amboy is just under 160 miles. Trip rates adjusted to be conservative and reflect 5 truck deliveries per week, up to 2 full time employees every day and a tour every other week.

Road Dust - similar assumption as construction route paved area percentage.

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

Energy Use - The project will not be connected to grid, but instead uses onsite solar power and propane gas.

Water And Wastewater - The project will not receive municipal water supply, but use water from an onsite well.

Construction Off-road Equipment Mitigation - SCAQMD rule 403.1 requires watering exposed area.

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers - Propane use of 1,000 gallons per month, equivalent to 91 mmBtu of natural gas.

Stationary Sources - User Defined -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Stationary Sources - Process Boilers EF -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDays	220.00	35.00
tblConstructionPhase	NumDays	6.00	15.00
tblConstructionPhase	NumDays	10.00	14.00
tblConstructionPhase	NumDays	3.00	15.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	1.97	0.00
tblEnergyUse	T24NG	15.20	0.00
tblGrading	AcresOfGrading	15.00	6.00
tblGrading	AcresOfGrading	22.50	4.50
tblLandUse	LandUseSquareFeet	13,480.00	13,484.00
tblLandUse	LandUseSquareFeet	1,340.00	1,342.00
tblLandUse	LotAcreage	0.31	2.00
tblLandUse	LotAcreage	0.03	0.78
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	HaulingPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	VendorPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblOnRoadDust	WorkerPercentPave	50.00	95.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	50	95
tblStationaryBoilersUse	AnnualHeatInput	0.00	1,092.00
tblStationaryBoilersUse	DailyHeatInput	0.00	3.03
tblStationaryBoilersUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	HaulingTripLength	20.00	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	VendorTripLength	6.20	45.00
tblTripsAndVMT	WorkerTripLength	14.60	45.00
tblTripsAndVMT	WorkerTripLength	14.60	45.00

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

tblTripsAndVMT	WorkerTripLength	14.60	45.00
tblTripsAndVMT	WorkerTripLength	14.60	45.00
tblTripsAndVMT	WorkerTripLength	14.60	45.00
tblVehicleTrips	CC_TL	6.20	45.00
tblVehicleTrips	CNW_TL	6.20	160.00
tblVehicleTrips	CNW_TTP	13.00	5.00
tblVehicleTrips	CW_TL	13.80	45.00
tblVehicleTrips	CW_TTP	59.00	67.00
tblVehicleTrips	ST_TR	6.42	1.00
tblVehicleTrips	SU_TR	5.09	1.00
tblVehicleTrips	WD_TR	3.93	1.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	IndoorWaterUseRate	3,117,250.00	0.00

2.0 Emissions Summary

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3407	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.2400e-003	3.2400e-003	1.0000e-005		3.4600e-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	0.1039	0.2714	1.6333	4.4700e-003	24.2104	3.5000e-003	24.2139	2.4897	3.2900e-003	2.4930		454.7981	454.7981	0.0170	0.0209	461.4460
Stationary	0.0163	0.0727	0.2911	1.7800e-003		0.0226	0.0226		0.0226	0.0226		356.4767	356.4767	6.8300e-003		356.6475
Total	0.4609	0.3441	1.9260	6.2500e-003	24.2104	0.0261	24.2364	2.4897	0.0259	2.5156		811.2781	811.2781	0.0239	0.0209	818.0970

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

2.2 Overall Operational

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	0.3407	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.2400e-003	3.2400e-003	1.0000e-005		3.4600e-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	0.1039	0.2714	1.6333	4.4700e-003	24.2104	3.5000e-003	24.2139	2.4897	3.2900e-003	2.4930		454.7981	454.7981	0.0170	0.0209	461.4460
Stationary	0.0163	0.0727	0.2911	1.7800e-003		0.0226	0.0226		0.0226	0.0226		356.4767	356.4767	6.8300e-003		356.6475
Total	0.4609	0.3441	1.9260	6.2500e-003	24.2104	0.0261	24.2364	2.4897	0.0259	2.5156		811.2781	811.2781	0.0239	0.0209	818.0970

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	1/20/2023	5	15	
2	Grading	Grading	1/21/2023	2/10/2023	5	15	
3	Building Construction	Building Construction	2/11/2023	3/31/2023	5	35	
4	Paving	Paving	4/1/2023	4/20/2023	5	14	

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

5	Architectural Coating	Architectural Coating	4/21/2023	4/30/2023	5	6
---	-----------------------	-----------------------	-----------	-----------	---	---

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0.78

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 20,226; Non-Residential Outdoor: 6,742; Striped Parking Area: 81 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
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
Building Construction	Cranes	1	8.00	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
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

Trips and VMT

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

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	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	6.00	2.00	0.00	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	45.00	45.00	45.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3182	0.0000	0.3182	0.0344	0.0000	0.0344			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	0.3182	0.5419	0.8600	0.0344	0.4985	0.5329		2,374.8634	2,374.8634	0.7681		2,394.0654

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

3.2 Site Preparation - 2023

Unmitigated Construction 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	0.0776	0.0627	0.6903	2.1100e-003	26.7519	1.2300e-003	26.7531	2.7130	1.1400e-003	2.7141		213.6751	213.6751	3.8900e-003	5.5900e-003	215.4392
Total	0.0776	0.0627	0.6903	2.1100e-003	26.7519	1.2300e-003	26.7531	2.7130	1.1400e-003	2.7141		213.6751	213.6751	3.8900e-003	5.5900e-003	215.4392

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					0.1241	0.0000	0.1241	0.0134	0.0000	0.0134			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	0.1241	0.5419	0.6660	0.0134	0.4985	0.5119	0.0000	2,374.8634	2,374.8634	0.7681		2,394.0654

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

3.2 Site Preparation - 2023

Mitigated Construction 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	0.0776	0.0627	0.6903	2.1100e-003	26.7519	1.2300e-003	26.7531	2.7130	1.1400e-003	2.7141		213.6751	213.6751	3.8900e-003	5.5900e-003	215.4392
Total	0.0776	0.0627	0.6903	2.1100e-003	26.7519	1.2300e-003	26.7531	2.7130	1.1400e-003	2.7141		213.6751	213.6751	3.8900e-003	5.5900e-003	215.4392

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4463	0.0000	6.4463	3.3560	0.0000	3.3560			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	6.4463	0.6044	7.0506	3.3560	0.5560	3.9120		1,995.6147	1,995.6147	0.6454		2,011.7503

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

3.3 Grading - 2023

Unmitigated Construction 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	0.0970	0.0784	0.8628	2.6400e-003	33.4399	1.5400e-003	33.4414	3.3913	1.4200e-003	3.3927		267.0939	267.0939	4.8700e-003	6.9900e-003	269.2990
Total	0.0970	0.0784	0.8628	2.6400e-003	33.4399	1.5400e-003	33.4414	3.3913	1.4200e-003	3.3927		267.0939	267.0939	4.8700e-003	6.9900e-003	269.2990

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5141	0.0000	2.5141	1.3089	0.0000	1.3089			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	2.5141	0.6044	3.1184	1.3089	0.5560	1.8649	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

3.3 Grading - 2023

Mitigated Construction 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	0.0970	0.0784	0.8628	2.6400e-003	33.4399	1.5400e-003	33.4414	3.3913	1.4200e-003	3.3927		267.0939	267.0939	4.8700e-003	6.9900e-003	269.2990
Total	0.0970	0.0784	0.8628	2.6400e-003	33.4399	1.5400e-003	33.4414	3.3913	1.4200e-003	3.3927		267.0939	267.0939	4.8700e-003	6.9900e-003	269.2990

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

3.4 Building Construction - 2023

Unmitigated Construction 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	9.6500e-003	0.3038	0.0786	2.1500e-003	6.7029	3.6200e-003	6.7065	0.6841	3.4600e-003	0.6876		226.0108	226.0108	1.1000e-003	0.0312	235.3208
Worker	0.0582	0.0471	0.5177	1.5900e-003	20.0639	9.2000e-004	20.0648	2.0348	8.5000e-004	2.0356		160.2563	160.2563	2.9200e-003	4.1900e-003	161.5794
Total	0.0678	0.3509	0.5963	3.7400e-003	26.7668	4.5400e-003	26.7714	2.7188	4.3100e-003	2.7232		386.2671	386.2671	4.0200e-003	0.0353	396.9002

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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

3.4 Building Construction - 2023

Mitigated Construction 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	9.6500e-003	0.3038	0.0786	2.1500e-003	6.7029	3.6200e-003	6.7065	0.6841	3.4600e-003	0.6876		226.0108	226.0108	1.1000e-003	0.0312	235.3208
Worker	0.0582	0.0471	0.5177	1.5900e-003	20.0639	9.2000e-004	20.0648	2.0348	8.5000e-004	2.0356		160.2563	160.2563	2.9200e-003	4.1900e-003	161.5794
Total	0.0678	0.3509	0.5963	3.7400e-003	26.7668	4.5400e-003	26.7714	2.7188	4.3100e-003	2.7232		386.2671	386.2671	4.0200e-003	0.0353	396.9002

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

3.5 Paving - 2023

Unmitigated Construction 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	0.1455	0.1176	1.2943	3.9600e-003	50.1598	2.3100e-003	50.1621	5.0869	2.1300e-003	5.0890		400.6408	400.6408	7.3000e-003	0.0105	403.9484
Total	0.1455	0.1176	1.2943	3.9600e-003	50.1598	2.3100e-003	50.1621	5.0869	2.1300e-003	5.0890		400.6408	400.6408	7.3000e-003	0.0105	403.9484

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	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

3.5 Paving - 2023

Mitigated Construction 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	0.1455	0.1176	1.2943	3.9600e-003	50.1598	2.3100e-003	50.1621	5.0869	2.1300e-003	5.0890		400.6408	400.6408	7.3000e-003	0.0105	403.9484
Total	0.1455	0.1176	1.2943	3.9600e-003	50.1598	2.3100e-003	50.1621	5.0869	2.1300e-003	5.0890		400.6408	400.6408	7.3000e-003	0.0105	403.9484

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.3430					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	31.5347	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

3.6 Architectural Coating - 2023

Unmitigated Construction 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	9.7000e-003	7.8400e-003	0.0863	2.6000e-004	3.3440	1.5000e-004	3.3441	0.3391	1.4000e-004	0.3393		26.7094	26.7094	4.9000e-004	7.0000e-004	26.9299
Total	9.7000e-003	7.8400e-003	0.0863	2.6000e-004	3.3440	1.5000e-004	3.3441	0.3391	1.4000e-004	0.3393		26.7094	26.7094	4.9000e-004	7.0000e-004	26.9299

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	31.3430					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	31.5347	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

3.6 Architectural Coating - 2023

Mitigated Construction 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	9.7000e-003	7.8400e-003	0.0863	2.6000e-004	3.3440	1.5000e-004	3.3441	0.3391	1.4000e-004	0.3393		26.7094	26.7094	4.9000e-004	7.0000e-004	26.9299
Total	9.7000e-003	7.8400e-003	0.0863	2.6000e-004	3.3440	1.5000e-004	3.3441	0.3391	1.4000e-004	0.3393		26.7094	26.7094	4.9000e-004	7.0000e-004	26.9299

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1039	0.2714	1.6333	4.4700e-003	24.2104	3.5000e-003	24.2139	2.4897	3.2900e-003	2.4930		454.7981	454.7981	0.0170	0.0209	461.4460
Unmitigated	0.1039	0.2714	1.6333	4.4700e-003	24.2104	3.5000e-003	24.2139	2.4897	3.2900e-003	2.4930		454.7981	454.7981	0.0170	0.0209	461.4460

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Manufacturing	13.48	13.48	13.48	232,222	232,222
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	13.48	13.48	13.48	232,222	232,222

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
Manufacturing	45.00	45.00	160.00	67.00	28.00	5.00	92	5	3
Other Non-Asphalt Surfaces	13.80	6.20	6.20	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
Manufacturing	0.515135	0.060169	0.185335	0.147842	0.025432	0.007034	0.010598	0.020349	0.000855	0.000237	0.021941	0.000925	0.004146
Other Non-Asphalt Surfaces	0.515135	0.060169	0.185335	0.147842	0.025432	0.007034	0.010598	0.020349	0.000855	0.000237	0.021941	0.000925	0.004146

5.0 Energy Detail

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

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					
Manufacturing	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

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

5.2 Energy by Land Use - NaturalGas

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					
Manufacturing	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

	ROG	NOx	CO	SO2	Fugitive 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	0.3407	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.2400e-003	3.2400e-003	1.0000e-005		3.4600e-003
Unmitigated	0.3407	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.2400e-003	3.2400e-003	1.0000e-005		3.4600e-003

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

6.2 Area by SubCategory

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	0.0515					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2890					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.2400e-003	3.2400e-003	1.0000e-005	3.4600e-003
Total	0.3407	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.2400e-003	3.2400e-003	1.0000e-005	3.4600e-003

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0515					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2890					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.2400e-003	3.2400e-003	1.0000e-005	3.4600e-003
Total	0.3407	1.0000e-005	1.5100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.2400e-003	3.2400e-003	1.0000e-005	3.4600e-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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Global Water Farms Pilot Project - Salton Sea Air Basin, Winter

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

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	1	3.03	1092	0	CNG

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					
Boiler - CNG (0 - 2 MMBTU)	0.0163	0.0727	0.2911	1.7800e-003		0.0226	0.0226		0.0226	0.0226		356.4767	356.4767	6.8300e-003		356.6475
Total	0.0163	0.0727	0.2911	1.7800e-003		0.0226	0.0226		0.0226	0.0226		356.4767	356.4767	6.8300e-003		356.6475

11.0 Vegetation
