

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Annual

Reservoir 4711-3 and 4711-4 Construction
Riverside-Salton Sea County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	4.54	1000sqft	0.10	4,540.00	0
Other Non-Asphalt Surfaces	1.40	Acre	1.40	60,984.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Total area is approximately 1.5 acres as detailed in the Project Description.

Construction Phase - Construction period is 18 months long from September 2020 to March 2022 per Project Description.

Off-road Equipment - Based on Project Description.

Off-road Equipment -

Demolition - 500 cy of material export * 1.4 tons per cy = 700 tons debris

Grading - Total graded area = 1.5 acres

Trips and VMT - If there is 500 cy of materials export and each truck holds approximately 16 cy of material, this would result in approximately 31 loads (62 total trips).

On-road Fugitive Dust - Access road to Project site is unpaved.

Architectural Coating - Consistency with SCAQMD Rule 1113.

Vehicle Trips - Assuming 8 trips per year for maintenance - divided by day and size metric. Conservatively assuming commute is 20 miles.

Road Dust - Access road to Project site is unpaved.

Area Coating - Consistency with SCAQMD Rule 1113.

Energy Use - No energy use, everything is gravity fed per Project Description.

Water And Wastewater - No water use.

Solid Waste - No solid waste generation.

Construction Off-road Equipment Mitigation - Consistency with SCAQMD Fugitive Dust Rule.

Area Mitigation - Consistency with SCAQMD Rule 1113.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	100.00

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tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0.5	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	4.00	170.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	4.00	80.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00

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tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	100	90
tblSolidWaste	SolidWasteGenerationRate	4.27	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	62.00
tblTripsAndVMT	VendorTripNumber	11.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00
tblTripsAndVMT	WorkerTripNumber	28.00	8.00
tblTripsAndVMT	WorkerTripNumber	6.00	8.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00
tblVehicleTrips	CC_TL	6.20	0.00
tblVehicleTrips	CC_TL	6.20	0.00
tblVehicleTrips	CNW_TL	6.20	0.00
tblVehicleTrips	CNW_TL	6.20	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	13.80	0.00
tblVehicleTrips	CW_TL	13.80	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	HW_TL	0.00	20.00
tblVehicleTrips	HW_TTP	0.00	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00

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tblVehicleTrips	ST_TR	1.68	0.01
tblVehicleTrips	SU_TR	1.68	0.01
tblVehicleTrips	WD_TR	1.68	0.01
tblWater	IndoorWaterUseRate	1,049,875.00	0.00

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1553	1.6418	1.0216	1.9200e-003	1.3407	0.0789	1.4197	0.2999	0.0727	0.3726	0.0000	167.2322	167.2322	0.0519	0.0000	168.5301
2021	0.3777	3.6562	2.3254	4.7500e-003	3.1959	0.1656	3.3615	0.4181	0.1539	0.5720	0.0000	412.3160	412.3160	0.1146	0.0000	415.1804
2022	0.0424	0.4517	0.2505	6.0000e-004	0.6266	0.0191	0.6457	0.1401	0.0176	0.1577	0.0000	52.8303	52.8303	0.0165	0.0000	53.2429
Maximum	0.3777	3.6562	2.3254	4.7500e-003	3.1959	0.1656	3.3615	0.4181	0.1539	0.5720	0.0000	412.3160	412.3160	0.1146	0.0000	415.1804

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1553	1.6418	1.0216	1.9200e-003	0.4445	0.0789	0.5234	0.1157	0.0727	0.1884	0.0000	167.2320	167.2320	0.0519	0.0000	168.5299
2021	0.3777	3.6562	2.3254	4.7500e-003	0.9731	0.1656	1.1387	0.1406	0.1539	0.2945	0.0000	412.3155	412.3155	0.1146	0.0000	415.1799
2022	0.0424	0.4517	0.2505	6.0000e-004	0.2077	0.0191	0.2269	0.0541	0.0176	0.0717	0.0000	52.8303	52.8303	0.0165	0.0000	53.2428
Maximum	0.3777	3.6562	2.3254	4.7500e-003	0.9731	0.1656	1.1387	0.1406	0.1539	0.2945	0.0000	412.3155	412.3155	0.1146	0.0000	415.1799

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	68.52	0.00	65.19	63.83	0.00	49.69	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2020	11-30-2020	1.3405	1.3405
2	12-1-2020	2-28-2021	1.3268	1.3268
3	3-1-2021	5-31-2021	2.1066	2.1066
4	6-1-2021	8-31-2021	2.1067	2.1067
5	9-1-2021	11-30-2021	1.3273	1.3273
6	12-1-2021	2-28-2022	0.8842	0.8842
		Highest	2.1067	2.1067

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	0.0232	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	2.0000e-005	1.7000e-004	3.1000e-004	0.0000	0.0124	0.0000	0.0124	1.2600e-003	0.0000	1.2600e-003	0.0000	0.1409	0.1409	1.0000e-005	0.0000	0.1411
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0232	1.7000e-004	3.6000e-004	0.0000	0.0124	0.0000	0.0124	1.2600e-003	0.0000	1.2600e-003	0.0000	0.1410	0.1410	1.0000e-005	0.0000	0.1412

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0232	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	2.0000e-005	1.7000e-004	3.1000e-004	0.0000	0.0124	0.0000	0.0124	1.2600e-003	0.0000	1.2600e-003	0.0000	0.1409	0.1409	1.0000e-005	0.0000	0.1411
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0232	1.7000e-004	3.6000e-004	0.0000	0.0124	0.0000	0.0124	1.2600e-003	0.0000	1.2600e-003	0.0000	0.1410	0.1410	1.0000e-005	0.0000	0.1412

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading and Excavation for New Storage Tanks	Grading	9/1/2020	2/17/2021	7	170	
2	New Storage Tanks	Building Construction	2/20/2021	9/7/2021	7	200	
3	Painting Storage Tanks	Architectural Coating	9/9/2021	9/18/2021	7	10	
4	Existing Storage Tanks	Demolition	10/9/2021	12/7/2021	7	60	
5	After Demolition and For New Revetment	Grading	12/9/2021	2/26/2022	7	80	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,810; Non-Residential Outdoor: 2,270; Striped Parking Area: 3,659 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading and Excavation for New Storage Tanks	Excavators	1	8.00	158	0.38
Grading and Excavation for New Storage Tanks	Graders	1	8.00	187	0.41
Grading and Excavation for New Storage Tanks	Plate Compactors	2	8.00	8	0.43
Grading and Excavation for New Storage Tanks	Rubber Tired Dozers	1	8.00	247	0.40
Grading and Excavation for New Storage Tanks	Tractors/Loaders/Backhoes	3	8.00	97	0.37
New Storage Tanks	Cement and Mortar Mixers	1	5.00	9	0.56
New Storage Tanks	Cranes	1	8.00	231	0.29
New Storage Tanks	Graders	1	8.00	187	0.41
New Storage Tanks	Tractors/Loaders/Backhoes	2	8.00	97	0.37
New Storage Tanks	Welders	1	8.00	46	0.45
Painting Storage Tanks	Air Compressors	1	6.00	78	0.48
Existing Storage Tanks	Concrete/Industrial Saws	2	8.00	81	0.73
Existing Storage Tanks	Cranes	1	8.00	231	0.29
Existing Storage Tanks	Excavators	1	8.00	158	0.38
Existing Storage Tanks	Rubber Tired Dozers	2	8.00	247	0.40
Existing Storage Tanks	Tractors/Loaders/Backhoes	2	8.00	97	0.37
After Demolition and For New Revetment	Excavators	1	8.00	158	0.38
After Demolition and For New Revetment	Graders	1	8.00	187	0.41
After Demolition and For New Revetment	Rubber Tired Dozers	1	8.00	247	0.40

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading and Excavation for New Storage Tanks	8	8.00	0.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
New Storage Tanks	6	8.00	2.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Painting Storage Tanks	1	8.00	0.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Existing Storage Tanks	8	8.00	0.00	62.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
After Demolition and For New Pavement	3	8.00	0.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads

3.2 Grading and Excavation for New Storage Tanks - 2020

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					0.3678	0.0000	0.3678	0.2020	0.0000	0.2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1531	1.6402	1.0049	1.8700e-003		0.0789	0.0789		0.0727	0.0727	0.0000	162.7744	162.7744	0.0518	0.0000	164.0696
Total	0.1531	1.6402	1.0049	1.8700e-003	0.3678	0.0789	0.4466	0.2020	0.0727	0.2746	0.0000	162.7744	162.7744	0.0518	0.0000	164.0696

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3.2 Grading and Excavation for New Storage Tanks - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2300e-003	1.5600e-003	0.0167	5.0000e-005	0.9730	3.0000e-005	0.9730	0.0979	3.0000e-005	0.0979	0.0000	4.4578	4.4578	1.1000e-004	0.0000	4.4605
Total	2.2300e-003	1.5600e-003	0.0167	5.0000e-005	0.9730	3.0000e-005	0.9730	0.0979	3.0000e-005	0.0979	0.0000	4.4578	4.4578	1.1000e-004	0.0000	4.4605

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					0.1572	0.0000	0.1572	0.0863	0.0000	0.0863	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1531	1.6402	1.0049	1.8700e-003		0.0789	0.0789		0.0727	0.0727	0.0000	162.7742	162.7742	0.0518	0.0000	164.0694
Total	0.1531	1.6402	1.0049	1.8700e-003	0.1572	0.0789	0.2361	0.0863	0.0727	0.1590	0.0000	162.7742	162.7742	0.0518	0.0000	164.0694

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3.2 Grading and Excavation for New Storage Tanks - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2300e-003	1.5600e-003	0.0167	5.0000e-005	0.2873	3.0000e-005	0.2873	0.0294	3.0000e-005	0.0294	0.0000	4.4578	4.4578	1.1000e-004	0.0000	4.4605
Total	2.2300e-003	1.5600e-003	0.0167	5.0000e-005	0.2873	3.0000e-005	0.2873	0.0294	3.0000e-005	0.0294	0.0000	4.4578	4.4578	1.1000e-004	0.0000	4.4605

3.2 Grading and Excavation for New Storage Tanks - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1450	0.0000	0.1450	0.0795	0.0000	0.0795	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0569	0.6057	0.3907	7.3000e-004		0.0283	0.0283		0.0261	0.0261	0.0000	64.0303	64.0303	0.0204	0.0000	64.5398
Total	0.0569	0.6057	0.3907	7.3000e-004	0.1450	0.0283	0.1733	0.0795	0.0261	0.1056	0.0000	64.0303	64.0303	0.0204	0.0000	64.5398

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3.2 Grading and Excavation for New Storage Tanks - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2000e-004	5.5000e-004	6.0100e-003	2.0000e-005	0.3828	1.0000e-005	0.3828	0.0385	1.0000e-005	0.0385	0.0000	1.6952	1.6952	4.0000e-005	0.0000	1.6962
Total	8.2000e-004	5.5000e-004	6.0100e-003	2.0000e-005	0.3828	1.0000e-005	0.3828	0.0385	1.0000e-005	0.0385	0.0000	1.6952	1.6952	4.0000e-005	0.0000	1.6962

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					0.0620	0.0000	0.0620	0.0340	0.0000	0.0340	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0569	0.6057	0.3907	7.3000e-004		0.0283	0.0283		0.0261	0.0261	0.0000	64.0302	64.0302	0.0204	0.0000	64.5397
Total	0.0569	0.6057	0.3907	7.3000e-004	0.0620	0.0283	0.0903	0.0340	0.0261	0.0601	0.0000	64.0302	64.0302	0.0204	0.0000	64.5397

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3.2 Grading and Excavation for New Storage Tanks - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2000e-004	5.5000e-004	6.0100e-003	2.0000e-005	0.1130	1.0000e-005	0.1130	0.0116	1.0000e-005	0.0116	0.0000	1.6952	1.6952	4.0000e-005	0.0000	1.6962
Total	8.2000e-004	5.5000e-004	6.0100e-003	2.0000e-005	0.1130	1.0000e-005	0.1130	0.0116	1.0000e-005	0.0116	0.0000	1.6952	1.6952	4.0000e-005	0.0000	1.6962

3.3 New Storage Tanks - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1580	1.6305	1.0182	2.1600e-003		0.0691	0.0691		0.0643	0.0643	0.0000	185.1812	185.1812	0.0556	0.0000	186.5719
Total	0.1580	1.6305	1.0182	2.1600e-003		0.0691	0.0691		0.0643	0.0643	0.0000	185.1812	185.1812	0.0556	0.0000	186.5719

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3.3 New Storage Tanks - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6000e-004	0.0181	3.4800e-003	5.0000e-005	0.1695	3.0000e-005	0.1696	0.0171	3.0000e-005	0.0172	0.0000	4.5255	4.5255	3.7000e-004	0.0000	4.5346
Worker	3.4100e-003	2.3000e-003	0.0250	8.0000e-005	1.5950	5.0000e-005	1.5951	0.1605	5.0000e-005	0.1606	0.0000	7.0635	7.0635	1.6000e-004	0.0000	7.0676
Total	3.8700e-003	0.0204	0.0285	1.3000e-004	1.7646	8.0000e-005	1.7647	0.1776	8.0000e-005	0.1777	0.0000	11.5889	11.5889	5.3000e-004	0.0000	11.6022

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	0.1580	1.6305	1.0182	2.1600e-003		0.0691	0.0691		0.0643	0.0643	0.0000	185.1810	185.1810	0.0556	0.0000	186.5716
Total	0.1580	1.6305	1.0182	2.1600e-003		0.0691	0.0691		0.0643	0.0643	0.0000	185.1810	185.1810	0.0556	0.0000	186.5716

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3.3 New Storage Tanks - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6000e-004	0.0181	3.4800e-003	5.0000e-005	0.0502	3.0000e-005	0.0502	5.1900e-003	3.0000e-005	5.2200e-003	0.0000	4.5255	4.5255	3.7000e-004	0.0000	4.5346
Worker	3.4100e-003	2.3000e-003	0.0250	8.0000e-005	0.4709	5.0000e-005	0.4710	0.0481	5.0000e-005	0.0482	0.0000	7.0635	7.0635	1.6000e-004	0.0000	7.0676
Total	3.8700e-003	0.0204	0.0285	1.3000e-004	0.5211	8.0000e-005	0.5212	0.0533	8.0000e-005	0.0534	0.0000	11.5889	11.5889	5.3000e-004	0.0000	11.6022

3.4 Painting Storage Tanks - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0190					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	0.0201	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Annual

3.4 Painting Storage Tanks - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.1000e-004	1.2500e-003	0.0000	0.0798	0.0000	0.0798	8.0300e-003	0.0000	8.0300e-003	0.0000	0.3532	0.3532	1.0000e-005	0.0000	0.3534
Total	1.7000e-004	1.1000e-004	1.2500e-003	0.0000	0.0798	0.0000	0.0798	8.0300e-003	0.0000	8.0300e-003	0.0000	0.3532	0.3532	1.0000e-005	0.0000	0.3534

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	0.0190					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	0.0201	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788

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3.4 Painting Storage Tanks - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.1000e-004	1.2500e-003	0.0000	0.0236	0.0000	0.0236	2.4100e-003	0.0000	2.4100e-003	0.0000	0.3532	0.3532	1.0000e-005	0.0000	0.3534
Total	1.7000e-004	1.1000e-004	1.2500e-003	0.0000	0.0236	0.0000	0.0236	2.4100e-003	0.0000	2.4100e-003	0.0000	0.3532	0.3532	1.0000e-005	0.0000	0.3534

3.5 Existing Storage Tanks - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5400e-003	0.0000	7.5400e-003	1.1400e-003	0.0000	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1164	1.1644	0.7560	1.4000e-003		0.0581	0.0581		0.0543	0.0543	0.0000	122.4908	122.4908	0.0311	0.0000	123.2671
Total	0.1164	1.1644	0.7560	1.4000e-003	7.5400e-003	0.0581	0.0656	1.1400e-003	0.0543	0.0554	0.0000	122.4908	122.4908	0.0311	0.0000	123.2671

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3.5 Existing Storage Tanks - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5000e-004	6.8900e-003	9.5000e-004	2.0000e-005	0.0847	2.0000e-005	0.0848	8.5400e-003	2.0000e-005	8.5600e-003	0.0000	2.2242	2.2242	1.4000e-004	0.0000	2.2276
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	1.0200e-003	6.9000e-004	7.5100e-003	2.0000e-005	0.4785	2.0000e-005	0.4785	0.0482	1.0000e-005	0.0482	0.0000	2.1190	2.1190	5.0000e-005	0.0000	2.1203
Total	1.1700e-003	7.5800e-003	8.4600e-003	4.0000e-005	0.5633	4.0000e-005	0.5633	0.0567	3.0000e-005	0.0567	0.0000	4.3433	4.3433	1.9000e-004	0.0000	4.3479

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					3.2200e-003	0.0000	3.2200e-003	4.9000e-004	0.0000	4.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1164	1.1644	0.7560	1.4000e-003		0.0581	0.0581		0.0543	0.0543	0.0000	122.4906	122.4906	0.0311	0.0000	123.2670
Total	0.1164	1.1644	0.7560	1.4000e-003	3.2200e-003	0.0581	0.0613	4.9000e-004	0.0543	0.0548	0.0000	122.4906	122.4906	0.0311	0.0000	123.2670

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3.5 Existing Storage Tanks - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5000e-004	6.8900e-003	9.5000e-004	2.0000e-005	0.0251	2.0000e-005	0.0251	2.5800e-003	2.0000e-005	2.6000e-003	0.0000	2.2242	2.2242	1.4000e-004	0.0000	2.2276
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	1.0200e-003	6.9000e-004	7.5100e-003	2.0000e-005	0.1413	2.0000e-005	0.1413	0.0144	1.0000e-005	0.0145	0.0000	2.1190	2.1190	5.0000e-005	0.0000	2.1203
Total	1.1700e-003	7.5800e-003	8.4600e-003	4.0000e-005	0.1663	4.0000e-005	0.1664	0.0170	3.0000e-005	0.0171	0.0000	4.3433	4.3433	1.9000e-004	0.0000	4.3479

3.6 After Demolition and For New Revetment - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0696	0.0000	0.0696	0.0381	0.0000	0.0381	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.2191	0.1044	2.3000e-004		9.4800e-003	9.4800e-003		8.7200e-003	8.7200e-003	0.0000	20.5442	20.5442	6.6400e-003	0.0000	20.7103
Total	0.0199	0.2191	0.1044	2.3000e-004	0.0696	9.4800e-003	0.0791	0.0381	8.7200e-003	0.0468	0.0000	20.5442	20.5442	6.6400e-003	0.0000	20.7103

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3.6 After Demolition and For New Revetment - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.6000e-004	2.8800e-003	1.0000e-005	0.1834	1.0000e-005	0.1834	0.0185	1.0000e-005	0.0185	0.0000	0.8123	0.8123	2.0000e-005	0.0000	0.8128
Total	3.9000e-004	2.6000e-004	2.8800e-003	1.0000e-005	0.1834	1.0000e-005	0.1834	0.0185	1.0000e-005	0.0185	0.0000	0.8123	0.8123	2.0000e-005	0.0000	0.8128

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					0.0298	0.0000	0.0298	0.0163	0.0000	0.0163	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.2191	0.1044	2.3000e-004		9.4800e-003	9.4800e-003		8.7200e-003	8.7200e-003	0.0000	20.5442	20.5442	6.6400e-003	0.0000	20.7103
Total	0.0199	0.2191	0.1044	2.3000e-004	0.0298	9.4800e-003	0.0392	0.0163	8.7200e-003	0.0250	0.0000	20.5442	20.5442	6.6400e-003	0.0000	20.7103

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3.6 After Demolition and For New Revetment - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.6000e-004	2.8800e-003	1.0000e-005	0.0542	1.0000e-005	0.0542	5.5300e-003	1.0000e-005	5.5400e-003	0.0000	0.8123	0.8123	2.0000e-005	0.0000	0.8128
Total	3.9000e-004	2.6000e-004	2.8800e-003	1.0000e-005	0.0542	1.0000e-005	0.0542	5.5300e-003	1.0000e-005	5.5400e-003	0.0000	0.8123	0.8123	2.0000e-005	0.0000	0.8128

3.6 After Demolition and For New Revetment - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1720	0.0000	0.1720	0.0944	0.0000	0.0944	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0415	0.4511	0.2439	5.8000e-004		0.0191	0.0191		0.0176	0.0176	0.0000	50.8907	50.8907	0.0165	0.0000	51.3022
Total	0.0415	0.4511	0.2439	5.8000e-004	0.1720	0.0191	0.1911	0.0944	0.0176	0.1120	0.0000	50.8907	50.8907	0.0165	0.0000	51.3022

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3.6 After Demolition and For New Revetment - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	5.9000e-004	6.5700e-003	2.0000e-005	0.4546	1.0000e-005	0.4546	0.0457	1.0000e-005	0.0458	0.0000	1.9396	1.9396	4.0000e-005	0.0000	1.9407
Total	9.1000e-004	5.9000e-004	6.5700e-003	2.0000e-005	0.4546	1.0000e-005	0.4546	0.0457	1.0000e-005	0.0458	0.0000	1.9396	1.9396	4.0000e-005	0.0000	1.9407

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					0.0735	0.0000	0.0735	0.0404	0.0000	0.0404	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0415	0.4511	0.2439	5.8000e-004		0.0191	0.0191		0.0176	0.0176	0.0000	50.8906	50.8906	0.0165	0.0000	51.3021
Total	0.0415	0.4511	0.2439	5.8000e-004	0.0735	0.0191	0.0926	0.0404	0.0176	0.0579	0.0000	50.8906	50.8906	0.0165	0.0000	51.3021

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Annual

3.6 After Demolition and For New Revetment - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	5.9000e-004	6.5700e-003	2.0000e-005	0.1342	1.0000e-005	0.1342	0.0137	1.0000e-005	0.0137	0.0000	1.9396	1.9396	4.0000e-005	0.0000	1.9407
Total	9.1000e-004	5.9000e-004	6.5700e-003	2.0000e-005	0.1342	1.0000e-005	0.1342	0.0137	1.0000e-005	0.0137	0.0000	1.9396	1.9396	4.0000e-005	0.0000	1.9407

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	2.0000e-005	1.7000e-004	3.1000e-004	0.0000	0.0124	0.0000	0.0124	1.2600e-003	0.0000	1.2600e-003	0.0000	0.1409	0.1409	1.0000e-005	0.0000	0.1411
Unmitigated	2.0000e-005	1.7000e-004	3.1000e-004	0.0000	0.0124	0.0000	0.0124	1.2600e-003	0.0000	1.2600e-003	0.0000	0.1409	0.1409	1.0000e-005	0.0000	0.1411

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.05	0.05	0.05	331	331
Total	0.05	0.05	0.05	331	331

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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Unrefrigerated Warehouse-No Rail	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Annual

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	0.0232	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Unmitigated	0.0232	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0217					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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Total	0.0232	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Annual

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	1.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0217					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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Total	0.0232	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Annual

	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			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	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	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

Reservoir 4711-3 and 4711-4 Construction
Riverside-Salton Sea County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	4.54	1000sqft	0.10	4,540.00	0
Other Non-Asphalt Surfaces	1.40	Acre	1.40	60,984.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

Project Characteristics -

Land Use - Total area is approximately 1.5 acres as detailed in the Project Description.

Construction Phase - Construction period is 18 months long from September 2020 to March 2022 per Project Description.

Off-road Equipment - Based on Project Description.

Off-road Equipment -

Demolition - 500 cy of material export * 1.4 tons per cy = 700 tons debris

Grading - Total graded area = 1.5 acres

Trips and VMT - If there is 500 cy of materials export and each truck holds approximately 16 cy of material, this would result in approximately 31 loads (62 total trips).

On-road Fugitive Dust - Access road to Project site is unpaved.

Architectural Coating - Consistency with SCAQMD Rule 1113.

Vehicle Trips - Assuming 8 trips per year for maintenance - divided by day and size metric. Conservatively assuming commute is 20 miles.

Road Dust - Access road to Project site is unpaved.

Area Coating - Consistency with SCAQMD Rule 1113.

Energy Use - No energy use, everything is gravity fed per Project Description.

Water And Wastewater - No water use.

Solid Waste - No solid waste generation.

Construction Off-road Equipment Mitigation - Consistency with SCAQMD Fugitive Dust Rule.

Area Mitigation - Consistency with SCAQMD Rule 1113.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	100.00

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0.5	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	4.00	170.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	4.00	80.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	100	90
tblSolidWaste	SolidWasteGenerationRate	4.27	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	62.00
tblTripsAndVMT	VendorTripNumber	11.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00
tblTripsAndVMT	WorkerTripNumber	28.00	8.00
tblTripsAndVMT	WorkerTripNumber	6.00	8.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00
tblVehicleTrips	CC_TL	6.20	0.00
tblVehicleTrips	CC_TL	6.20	0.00
tblVehicleTrips	CNW_TL	6.20	0.00
tblVehicleTrips	CNW_TL	6.20	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	13.80	0.00
tblVehicleTrips	CW_TL	13.80	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	HW_TL	0.00	20.00
tblVehicleTrips	HW_TTP	0.00	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

tblVehicleTrips	ST_TR	1.68	0.01
tblVehicleTrips	SU_TR	1.68	0.01
tblVehicleTrips	WD_TR	1.68	0.01
tblWater	IndoorWaterUseRate	1,049,875.00	0.00

2.0 Emissions Summary

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.5495	26.9124	16.7945	0.0315	23.2974	1.2935	24.5909	5.0477	1.1916	6.2393	0.0000	3,028.984 4	3,028.984 4	0.9384	0.0000	3,052.444 9
2021	4.0569	41.7665	27.0803	0.0544	42.4033	1.9372	44.2752	6.9698	1.8100	8.7003	0.0000	5,202.134 0	5,202.134 0	1.5571	0.0000	5,241.060 5
2022	1.4898	15.8476	8.8300	0.0211	23.3017	0.6710	23.9727	5.0482	0.6173	5.6655	0.0000	2,049.850 6	2,049.850 6	0.6384	0.0000	2,065.810 8
Maximum	4.0569	41.7665	27.0803	0.0544	42.4033	1.9372	44.2752	6.9698	1.8100	8.7003	0.0000	5,202.134 0	5,202.134 0	1.5571	0.0000	5,241.060 5

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.5495	26.9124	16.7945	0.0315	7.6717	1.2935	8.9652	1.9351	1.1916	3.1267	0.0000	3,028.984 3	3,028.984 3	0.9384	0.0000	3,052.444 9
2021	4.0569	41.7665	27.0803	0.0544	13.3097	1.9372	15.1817	2.5109	1.8100	4.2413	0.0000	5,202.134 0	5,202.134 0	1.5571	0.0000	5,241.060 5
2022	1.4898	15.8476	8.8300	0.0211	7.6735	0.6710	8.3445	1.9353	0.6173	2.5526	0.0000	2,049.850 6	2,049.850 6	0.6384	0.0000	2,065.810 8
Maximum	4.0569	41.7665	27.0803	0.0544	13.3097	1.9372	15.1817	2.5109	1.8100	4.2413	0.0000	5,202.134 0	5,202.134 0	1.5571	0.0000	5,241.060 5

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	67.80	0.00	65.00	62.61	0.00	51.85	0.00	0.00	0.00	0.00	0.00	0.00

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1269	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-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	1.2000e-004	9.0000e-004	1.9900e-003	1.0000e-005	0.0682	1.0000e-005	0.0682	6.9000e-003	1.0000e-005	6.9100e-003		0.9037	0.9037	3.0000e-005		0.9045
Total	0.1270	9.1000e-004	2.6000e-003	1.0000e-005	0.0682	1.0000e-005	0.0682	6.9000e-003	1.0000e-005	6.9100e-003		0.9050	0.9050	3.0000e-005	0.0000	0.9059

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	0.1269	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-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	1.2000e-004	9.0000e-004	1.9900e-003	1.0000e-005	0.0682	1.0000e-005	0.0682	6.9000e-003	1.0000e-005	6.9100e-003		0.9037	0.9037	3.0000e-005		0.9045
Total	0.1270	9.1000e-004	2.6000e-003	1.0000e-005	0.0682	1.0000e-005	0.0682	6.9000e-003	1.0000e-005	6.9100e-003		0.9050	0.9050	3.0000e-005	0.0000	0.9059

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading and Excavation for New Storage Tanks	Grading	9/1/2020	2/17/2021	7	170	
2	New Storage Tanks	Building Construction	2/20/2021	9/7/2021	7	200	
3	Painting Storage Tanks	Architectural Coating	9/9/2021	9/18/2021	7	10	
4	Existing Storage Tanks	Demolition	10/9/2021	12/7/2021	7	60	
5	After Demolition and For New Revetment	Grading	12/9/2021	2/26/2022	7	80	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,810; Non-Residential Outdoor: 2,270; Striped Parking Area: 3,659 (Architectural Coating – sqft)

OffRoad Equipment

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading and Excavation for New Storage Tanks	Excavators	1	8.00	158	0.38
Grading and Excavation for New Storage Tanks	Graders	1	8.00	187	0.41
Grading and Excavation for New Storage Tanks	Plate Compactors	2	8.00	8	0.43
Grading and Excavation for New Storage Tanks	Rubber Tired Dozers	1	8.00	247	0.40
Grading and Excavation for New Storage Tanks	Tractors/Loaders/Backhoes	3	8.00	97	0.37
New Storage Tanks	Cement and Mortar Mixers	1	5.00	9	0.56
New Storage Tanks	Cranes	1	8.00	231	0.29
New Storage Tanks	Graders	1	8.00	187	0.41
New Storage Tanks	Tractors/Loaders/Backhoes	2	8.00	97	0.37
New Storage Tanks	Welders	1	8.00	46	0.45
Painting Storage Tanks	Air Compressors	1	6.00	78	0.48
Existing Storage Tanks	Concrete/Industrial Saws	2	8.00	81	0.73
Existing Storage Tanks	Cranes	1	8.00	231	0.29
Existing Storage Tanks	Excavators	1	8.00	158	0.38
Existing Storage Tanks	Rubber Tired Dozers	2	8.00	247	0.40
Existing Storage Tanks	Tractors/Loaders/Backhoes	2	8.00	97	0.37
After Demolition and For New Revetment	Excavators	1	8.00	158	0.38
After Demolition and For New Revetment	Graders	1	8.00	187	0.41
After Demolition and For New Revetment	Rubber Tired Dozers	1	8.00	247	0.40

Trips and VMT

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading and Excavation for New Storage Tanks	8	8.00	0.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
New Storage Tanks	6	8.00	2.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Painting Storage Tanks	1	8.00	0.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Existing Storage Tanks	8	8.00	0.00	62.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
After Demolition and For New Pavement	3	8.00	0.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads

3.2 Grading and Excavation for New Storage Tanks - 2020

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					6.0271	0.0000	6.0271	3.3108	0.0000	3.3108			0.0000			0.0000
Off-Road	2.5090	26.8885	16.4739	0.0306		1.2930	1.2930		1.1911	1.1911		2,941.4439	2,941.4439	0.9362		2,964.8484
Total	2.5090	26.8885	16.4739	0.0306	6.0271	1.2930	7.3200	3.3108	1.1911	4.5019		2,941.4439	2,941.4439	0.9362		2,964.8484

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.2 Grading and Excavation for New Storage Tanks - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0405	0.0239	0.3206	8.8000e-004	17.2703	5.4000e-004	17.2708	1.7369	5.0000e-004	1.7374		87.5404	87.5404	2.2400e-003		87.5966
Total	0.0405	0.0239	0.3206	8.8000e-004	17.2703	5.4000e-004	17.2708	1.7369	5.0000e-004	1.7374		87.5404	87.5404	2.2400e-003		87.5966

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					2.5766	0.0000	2.5766	1.4154	0.0000	1.4154			0.0000			0.0000
Off-Road	2.5090	26.8885	16.4739	0.0306		1.2930	1.2930		1.1911	1.1911	0.0000	2,941.4439	2,941.4439	0.9362		2,964.8484
Total	2.5090	26.8885	16.4739	0.0306	2.5766	1.2930	3.8695	1.4154	1.1911	2.6064	0.0000	2,941.4439	2,941.4439	0.9362		2,964.8484

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.2 Grading and Excavation for New Storage Tanks - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0405	0.0239	0.3206	8.8000e-004	5.0951	5.4000e-004	5.0956	0.5198	5.0000e-004	0.5203		87.5404	87.5404	2.2400e-003		87.5966
Total	0.0405	0.0239	0.3206	8.8000e-004	5.0951	5.4000e-004	5.0956	0.5198	5.0000e-004	0.5203		87.5404	87.5404	2.2400e-003		87.5966

3.2 Grading and Excavation for New Storage Tanks - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0271	0.0000	6.0271	3.3108	0.0000	3.3108			0.0000			0.0000
Off-Road	2.3706	25.2393	16.2784	0.0306		1.1795	1.1795		1.0867	1.0867		2,940.8873	2,940.8873	0.9360		2,964.2873
Total	2.3706	25.2393	16.2784	0.0306	6.0271	1.1795	7.2065	3.3108	1.0867	4.3974		2,940.8873	2,940.8873	0.9360		2,964.2873

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.2 Grading and Excavation for New Storage Tanks - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0378	0.0215	0.2940	8.5000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		84.6126	84.6126	2.0200e-003		84.6631
Total	0.0378	0.0215	0.2940	8.5000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		84.6126	84.6126	2.0200e-003		84.6631

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					2.5766	0.0000	2.5766	1.4154	0.0000	1.4154			0.0000			0.0000
Off-Road	2.3706	25.2393	16.2784	0.0306		1.1795	1.1795		1.0867	1.0867	0.0000	2,940.8873	2,940.8873	0.9360		2,964.2873
Total	2.3706	25.2393	16.2784	0.0306	2.5766	1.1795	3.7560	1.4154	1.0867	2.5020	0.0000	2,940.8873	2,940.8873	0.9360		2,964.2873

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.2 Grading and Excavation for New Storage Tanks - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0378	0.0215	0.2940	8.5000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		84.6126	84.6126	2.0200e-003		84.6631
Total	0.0378	0.0215	0.2940	8.5000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		84.6126	84.6126	2.0200e-003		84.6631

3.3 New Storage Tanks - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5798	16.3045	10.1821	0.0216		0.6912	0.6912		0.6425	0.6425		2,041.2735	2,041.2735	0.6132		2,056.6027
Total	1.5798	16.3045	10.1821	0.0216		0.6912	0.6912		0.6425	0.6425		2,041.2735	2,041.2735	0.6132		2,056.6027

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.3 New Storage Tanks - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4900e-003	0.1797	0.0319	4.8000e-004	1.8356	3.2000e-004	1.8359	0.1852	3.1000e-004	0.1855		50.7481	50.7481	3.8500e-003		50.8444
Worker	0.0378	0.0215	0.2940	8.5000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		84.6126	84.6126	2.0200e-003		84.6631
Total	0.0422	0.2012	0.3258	1.3300e-003	19.1059	8.4000e-004	19.1067	1.9221	7.9000e-004	1.9229		135.3607	135.3607	5.8700e-003		135.5075

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	1.5798	16.3045	10.1821	0.0216		0.6912	0.6912		0.6425	0.6425	0.0000	2,041.2735	2,041.2735	0.6132		2,056.6027
Total	1.5798	16.3045	10.1821	0.0216		0.6912	0.6912		0.6425	0.6425	0.0000	2,041.2735	2,041.2735	0.6132		2,056.6027

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.3 New Storage Tanks - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4900e-003	0.1797	0.0319	4.8000e-004	0.5430	3.2000e-004	0.5433	0.0560	3.1000e-004	0.0563		50.7481	50.7481	3.8500e-003		50.8444
Worker	0.0378	0.0215	0.2940	8.5000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		84.6126	84.6126	2.0200e-003		84.6631
Total	0.0422	0.2012	0.3258	1.3300e-003	5.6381	8.4000e-004	5.6389	0.5758	7.9000e-004	0.5766		135.3607	135.3607	5.8700e-003		135.5075

3.4 Painting Storage Tanks - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	3.8002					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	4.0191	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.4 Painting Storage Tanks - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0378	0.0215	0.2940	8.5000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		84.6126	84.6126	2.0200e-003		84.6631
Total	0.0378	0.0215	0.2940	8.5000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		84.6126	84.6126	2.0200e-003		84.6631

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	3.8002					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	4.0191	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.4 Painting Storage Tanks - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0378	0.0215	0.2940	8.5000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		84.6126	84.6126	2.0200e-003		84.6631
Total	0.0378	0.0215	0.2940	8.5000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		84.6126	84.6126	2.0200e-003		84.6631

3.5 Existing Storage Tanks - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2512	0.0000	0.2512	0.0380	0.0000	0.0380			0.0000			0.0000
Off-Road	3.8790	38.8127	25.1988	0.0467		1.9360	1.9360		1.8088	1.8088		4,500.7646	4,500.7646	1.1411		4,529.2923
Total	3.8790	38.8127	25.1988	0.0467	0.2512	1.9360	2.1872	0.0380	1.8088	1.8469		4,500.7646	4,500.7646	1.1411		4,529.2923

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.5 Existing Storage Tanks - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0300e-003	0.2246	0.0295	7.8000e-004	3.0582	6.8000e-004	3.0589	0.3081	6.5000e-004	0.3088		82.5980	82.5980	4.8000e-003		82.7179
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0378	0.0215	0.2940	8.5000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		84.6126	84.6126	2.0200e-003		84.6631
Total	0.0428	0.2461	0.3235	1.6300e-003	20.3285	1.2000e-003	20.3297	2.0450	1.1300e-003	2.0462		167.2106	167.2106	6.8200e-003		167.3810

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					0.1074	0.0000	0.1074	0.0163	0.0000	0.0163			0.0000			0.0000
Off-Road	3.8790	38.8127	25.1988	0.0467		1.9360	1.9360		1.8088	1.8088	0.0000	4,500.7646	4,500.7646	1.1411		4,529.2923
Total	3.8790	38.8127	25.1988	0.0467	0.1074	1.9360	2.0434	0.0163	1.8088	1.8251	0.0000	4,500.7646	4,500.7646	1.1411		4,529.2923

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.5 Existing Storage Tanks - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0300e-003	0.2246	0.0295	7.8000e-004	0.9039	6.8000e-004	0.9046	0.0928	6.5000e-004	0.0934		82.5980	82.5980	4.8000e-003		82.7179
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0378	0.0215	0.2940	8.5000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		84.6126	84.6126	2.0200e-003		84.6631
Total	0.0428	0.2461	0.3235	1.6300e-003	5.9990	1.2000e-003	6.0002	0.6125	1.1300e-003	0.6137		167.2106	167.2106	6.8200e-003		167.3810

3.6 After Demolition and For New Revetment - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0314	0.0000	6.0314	3.3112	0.0000	3.3112			0.0000			0.0000
Off-Road	1.7285	19.0493	9.0768	0.0203		0.8246	0.8246		0.7586	0.7586		1,969.2283	1,969.2283	0.6369		1,985.1505
Total	1.7285	19.0493	9.0768	0.0203	6.0314	0.8246	6.8560	3.3112	0.7586	4.0699		1,969.2283	1,969.2283	0.6369		1,985.1505

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.6 After Demolition and For New Revetment - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0378	0.0215	0.2940	8.5000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		84.6126	84.6126	2.0200e-003		84.6631
Total	0.0378	0.0215	0.2940	8.5000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		84.6126	84.6126	2.0200e-003		84.6631

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					2.5784	0.0000	2.5784	1.4156	0.0000	1.4156			0.0000			0.0000
Off-Road	1.7285	19.0493	9.0768	0.0203		0.8246	0.8246		0.7586	0.7586	0.0000	1,969.2283	1,969.2283	0.6369		1,985,1505
Total	1.7285	19.0493	9.0768	0.0203	2.5784	0.8246	3.4030	1.4156	0.7586	2.1742	0.0000	1,969.2283	1,969.2283	0.6369		1,985,1505

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.6 After Demolition and For New Revetment - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0378	0.0215	0.2940	8.5000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		84.6126	84.6126	2.0200e-003		84.6631
Total	0.0378	0.0215	0.2940	8.5000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		84.6126	84.6126	2.0200e-003		84.6631

3.6 After Demolition and For New Revetment - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0314	0.0000	6.0314	3.3112	0.0000	3.3112			0.0000			0.0000
Off-Road	1.4545	15.8282	8.5589	0.0203		0.6705	0.6705		0.6169	0.6169		1,968.3296	1,968.3296	0.6366		1,984.2445
Total	1.4545	15.8282	8.5589	0.0203	6.0314	0.6705	6.7019	3.3112	0.6169	3.9281		1,968.3296	1,968.3296	0.6366		1,984.2445

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.6 After Demolition and For New Revetment - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0353	0.0193	0.2711	8.2000e-004	17.2703	5.1000e-004	17.2708	1.7369	4.7000e-004	1.7374		81.5210	81.5210	1.8100e-003		81.5663
Total	0.0353	0.0193	0.2711	8.2000e-004	17.2703	5.1000e-004	17.2708	1.7369	4.7000e-004	1.7374		81.5210	81.5210	1.8100e-003		81.5663

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					2.5784	0.0000	2.5784	1.4156	0.0000	1.4156			0.0000			0.0000
Off-Road	1.4545	15.8282	8.5589	0.0203		0.6705	0.6705		0.6169	0.6169	0.0000	1,968.3296	1,968.3296	0.6366		1,984.2445
Total	1.4545	15.8282	8.5589	0.0203	2.5784	0.6705	3.2489	1.4156	0.6169	2.0324	0.0000	1,968.3296	1,968.3296	0.6366		1,984.2445

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

3.6 After Demolition and For New Revetment - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0353	0.0193	0.2711	8.2000e-004	5.0951	5.1000e-004	5.0956	0.5198	4.7000e-004	0.5202		81.5210	81.5210	1.8100e-003		81.5663
Total	0.0353	0.0193	0.2711	8.2000e-004	5.0951	5.1000e-004	5.0956	0.5198	4.7000e-004	0.5202		81.5210	81.5210	1.8100e-003		81.5663

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2000e-004	9.0000e-004	1.9900e-003	1.0000e-005	0.0682	1.0000e-005	0.0682	6.9000e-003	1.0000e-005	6.9100e-003		0.9037	0.9037	3.0000e-005		0.9045
Unmitigated	1.2000e-004	9.0000e-004	1.9900e-003	1.0000e-005	0.0682	1.0000e-005	0.0682	6.9000e-003	1.0000e-005	6.9100e-003		0.9037	0.9037	3.0000e-005		0.9045

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.05	0.05	0.05	331	331
Total	0.05	0.05	0.05	331	331

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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Unrefrigerated Warehouse-No Rail	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
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
Unrefrigerated Warehouse-No Rail	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

Mitigated

	Natural Gas 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					
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
Unrefrigerated Warehouse-No Rail	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

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	0.1269	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-003
Unmitigated	0.1269	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.0900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1188					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-003
Total	0.1269	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-003

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

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	8.0900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1188					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-003
Total	0.1269	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Summer

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

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

Equipment Type	Number
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11.0 Vegetation

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

Reservoir 4711-3 and 4711-4 Construction
Riverside-Salton Sea County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	4.54	1000sqft	0.10	4,540.00	0
Other Non-Asphalt Surfaces	1.40	Acre	1.40	60,984.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	15			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

Project Characteristics -

Land Use - Total area is approximately 1.5 acres as detailed in the Project Description.

Construction Phase - Construction period is 18 months long from September 2020 to March 2022 per Project Description.

Off-road Equipment - Based on Project Description.

Off-road Equipment -

Demolition - 500 cy of material export * 1.4 tons per cy = 700 tons debris

Grading - Total graded area = 1.5 acres

Trips and VMT - If there is 500 cy of materials export and each truck holds approximately 16 cy of material, this would result in approximately 31 loads (62 total trips).

On-road Fugitive Dust - Access road to Project site is unpaved.

Architectural Coating - Consistency with SCAQMD Rule 1113.

Vehicle Trips - Assuming 8 trips per year for maintenance - divided by day and size metric. Conservatively assuming commute is 20 miles.

Road Dust - Access road to Project site is unpaved.

Area Coating - Consistency with SCAQMD Rule 1113.

Energy Use - No energy use, everything is gravity fed per Project Description.

Water And Wastewater - No water use.

Solid Waste - No solid waste generation.

Construction Off-road Equipment Mitigation - Consistency with SCAQMD Fugitive Dust Rule.

Area Mitigation - Consistency with SCAQMD Rule 1113.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	100.00

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0.5	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	4.00	170.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	4.00	80.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	100	90
tblSolidWaste	SolidWasteGenerationRate	4.27	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	62.00
tblTripsAndVMT	VendorTripNumber	11.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00
tblTripsAndVMT	WorkerTripNumber	28.00	8.00
tblTripsAndVMT	WorkerTripNumber	6.00	8.00
tblTripsAndVMT	WorkerTripNumber	20.00	8.00
tblVehicleTrips	CC_TL	6.20	0.00
tblVehicleTrips	CC_TL	6.20	0.00
tblVehicleTrips	CNW_TL	6.20	0.00
tblVehicleTrips	CNW_TL	6.20	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	13.80	0.00
tblVehicleTrips	CW_TL	13.80	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	HW_TL	0.00	20.00
tblVehicleTrips	HW_TTP	0.00	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

tblVehicleTrips	ST_TR	1.68	0.01
tblVehicleTrips	SU_TR	1.68	0.01
tblVehicleTrips	WD_TR	1.68	0.01
tblWater	IndoorWaterUseRate	1,049,875.00	0.00

2.0 Emissions Summary

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.5487	26.9132	16.7333	0.0314	23.2974	1.2935	24.5909	5.0477	1.1916	6.2393	0.0000	3,019.976 9	3,019.976 9	0.9381	0.0000	3,043.430 2
2021	4.0562	41.7661	26.9731	0.0542	42.4033	1.9372	44.2753	6.9698	1.8100	8.7003	0.0000	5,182.667 7	5,182.667 7	1.5570	0.0000	5,221.592 2
2022	1.4892	15.8482	8.7775	0.0211	23.3017	0.6710	23.9727	5.0482	0.6173	5.6655	0.0000	2,041.467 0	2,041.467 0	0.6382	0.0000	2,057.421 4
Maximum	4.0562	41.7661	26.9731	0.0542	42.4033	1.9372	44.2753	6.9698	1.8100	8.7003	0.0000	5,182.667 7	5,182.667 7	1.5570	0.0000	5,221.592 2

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.5487	26.9132	16.7333	0.0314	7.6717	1.2935	8.9652	1.9351	1.1916	3.1267	0.0000	3,019.976 9	3,019.976 9	0.9381	0.0000	3,043.430 2
2021	4.0562	41.7661	26.9731	0.0542	13.3097	1.9372	15.1817	2.5109	1.8100	4.2414	0.0000	5,182.667 7	5,182.667 7	1.5570	0.0000	5,221.592 2
2022	1.4892	15.8482	8.7775	0.0211	7.6735	0.6710	8.3445	1.9353	0.6173	2.5526	0.0000	2,041.467 0	2,041.467 0	0.6382	0.0000	2,057.421 4
Maximum	4.0562	41.7661	26.9731	0.0542	13.3097	1.9372	15.1817	2.5109	1.8100	4.2414	0.0000	5,182.667 7	5,182.667 7	1.5570	0.0000	5,221.592 2

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

	ROG	NOx	CO	SO2	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	67.80	0.00	65.00	62.61	0.00	51.85	0.00	0.00	0.00	0.00	0.00	0.00

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

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	0.1269	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-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	1.0000e-004	9.2000e-004	1.6600e-003	1.0000e-005	0.0682	1.0000e-005	0.0682	6.9000e-003	1.0000e-005	6.9100e-003		0.8375	0.8375	3.0000e-005		0.8383
Total	0.1270	9.3000e-004	2.2700e-003	1.0000e-005	0.0682	1.0000e-005	0.0682	6.9000e-003	1.0000e-005	6.9100e-003		0.8388	0.8388	3.0000e-005	0.0000	0.8397

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	0.1269	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-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	1.0000e-004	9.2000e-004	1.6600e-003	1.0000e-005	0.0682	1.0000e-005	0.0682	6.9000e-003	1.0000e-005	6.9100e-003		0.8375	0.8375	3.0000e-005		0.8383
Total	0.1270	9.3000e-004	2.2700e-003	1.0000e-005	0.0682	1.0000e-005	0.0682	6.9000e-003	1.0000e-005	6.9100e-003		0.8388	0.8388	3.0000e-005	0.0000	0.8397

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading and Excavation for New Storage Tanks	Grading	9/1/2020	2/17/2021	7	170	
2	New Storage Tanks	Building Construction	2/20/2021	9/7/2021	7	200	
3	Painting Storage Tanks	Architectural Coating	9/9/2021	9/18/2021	7	10	
4	Existing Storage Tanks	Demolition	10/9/2021	12/7/2021	7	60	
5	After Demolition and For New Revetment	Grading	12/9/2021	2/26/2022	7	80	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,810; Non-Residential Outdoor: 2,270; Striped Parking Area: 3,659 (Architectural Coating – sqft)

OffRoad Equipment

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading and Excavation for New Storage Tanks	Excavators	1	8.00	158	0.38
Grading and Excavation for New Storage Tanks	Graders	1	8.00	187	0.41
Grading and Excavation for New Storage Tanks	Plate Compactors	2	8.00	8	0.43
Grading and Excavation for New Storage Tanks	Rubber Tired Dozers	1	8.00	247	0.40
Grading and Excavation for New Storage Tanks	Tractors/Loaders/Backhoes	3	8.00	97	0.37
New Storage Tanks	Cement and Mortar Mixers	1	5.00	9	0.56
New Storage Tanks	Cranes	1	8.00	231	0.29
New Storage Tanks	Graders	1	8.00	187	0.41
New Storage Tanks	Tractors/Loaders/Backhoes	2	8.00	97	0.37
New Storage Tanks	Welders	1	8.00	46	0.45
Painting Storage Tanks	Air Compressors	1	6.00	78	0.48
Existing Storage Tanks	Concrete/Industrial Saws	2	8.00	81	0.73
Existing Storage Tanks	Cranes	1	8.00	231	0.29
Existing Storage Tanks	Excavators	1	8.00	158	0.38
Existing Storage Tanks	Rubber Tired Dozers	2	8.00	247	0.40
Existing Storage Tanks	Tractors/Loaders/Backhoes	2	8.00	97	0.37
After Demolition and For New Revetment	Excavators	1	8.00	158	0.38
After Demolition and For New Revetment	Graders	1	8.00	187	0.41
After Demolition and For New Revetment	Rubber Tired Dozers	1	8.00	247	0.40

Trips and VMT

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading and Excavation for New Storage Tanks	8	8.00	0.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
New Storage Tanks	6	8.00	2.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Painting Storage Tanks	1	8.00	0.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Existing Storage Tanks	8	8.00	0.00	62.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
After Demolition and For New Pavement	3	8.00	0.00	0.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads

3.2 Grading and Excavation for New Storage Tanks - 2020

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					6.0271	0.0000	6.0271	3.3108	0.0000	3.3108			0.0000			0.0000
Off-Road	2.5090	26.8885	16.4739	0.0306		1.2930	1.2930		1.1911	1.1911		2,941.4439	2,941.4439	0.9362		2,964.8484
Total	2.5090	26.8885	16.4739	0.0306	6.0271	1.2930	7.3200	3.3108	1.1911	4.5019		2,941.4439	2,941.4439	0.9362		2,964.8484

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.2 Grading and Excavation for New Storage Tanks - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0397	0.0248	0.2594	7.9000e-004	17.2703	5.4000e-004	17.2708	1.7369	5.0000e-004	1.7374		78.5330	78.5330	1.9500e-003		78.5818
Total	0.0397	0.0248	0.2594	7.9000e-004	17.2703	5.4000e-004	17.2708	1.7369	5.0000e-004	1.7374		78.5330	78.5330	1.9500e-003		78.5818

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					2.5766	0.0000	2.5766	1.4154	0.0000	1.4154			0.0000			0.0000
Off-Road	2.5090	26.8885	16.4739	0.0306		1.2930	1.2930		1.1911	1.1911	0.0000	2,941.4439	2,941.4439	0.9362		2,964.8484
Total	2.5090	26.8885	16.4739	0.0306	2.5766	1.2930	3.8695	1.4154	1.1911	2.6064	0.0000	2,941.4439	2,941.4439	0.9362		2,964.8484

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.2 Grading and Excavation for New Storage Tanks - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0397	0.0248	0.2594	7.9000e-004	5.0951	5.4000e-004	5.0956	0.5198	5.0000e-004	0.5203		78.5330	78.5330	1.9500e-003		78.5818
Total	0.0397	0.0248	0.2594	7.9000e-004	5.0951	5.4000e-004	5.0956	0.5198	5.0000e-004	0.5203		78.5330	78.5330	1.9500e-003		78.5818

3.2 Grading and Excavation for New Storage Tanks - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0271	0.0000	6.0271	3.3108	0.0000	3.3108			0.0000			0.0000
Off-Road	2.3706	25.2393	16.2784	0.0306		1.1795	1.1795		1.0867	1.0867		2,940.8873	2,940.8873	0.9360		2,964.2873
Total	2.3706	25.2393	16.2784	0.0306	6.0271	1.1795	7.2065	3.3108	1.0867	4.3974		2,940.8873	2,940.8873	0.9360		2,964.2873

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.2 Grading and Excavation for New Storage Tanks - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0370	0.0222	0.2374	7.6000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		75.9072	75.9072	1.7500e-003		75.9511
Total	0.0370	0.0222	0.2374	7.6000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		75.9072	75.9072	1.7500e-003		75.9511

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					2.5766	0.0000	2.5766	1.4154	0.0000	1.4154			0.0000			0.0000
Off-Road	2.3706	25.2393	16.2784	0.0306		1.1795	1.1795		1.0867	1.0867	0.0000	2,940.8873	2,940.8873	0.9360		2,964.2873
Total	2.3706	25.2393	16.2784	0.0306	2.5766	1.1795	3.7560	1.4154	1.0867	2.5020	0.0000	2,940.8873	2,940.8873	0.9360		2,964.2873

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.2 Grading and Excavation for New Storage Tanks - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0370	0.0222	0.2374	7.6000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		75.9072	75.9072	1.7500e-003		75.9511
Total	0.0370	0.0222	0.2374	7.6000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		75.9072	75.9072	1.7500e-003		75.9511

3.3 New Storage Tanks - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5798	16.3045	10.1821	0.0216		0.6912	0.6912		0.6425	0.6425		2,041.2735	2,041.2735	0.6132		2,056.6027
Total	1.5798	16.3045	10.1821	0.0216		0.6912	0.6912		0.6425	0.6425		2,041.2735	2,041.2735	0.6132		2,056.6027

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.3 New Storage Tanks - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.7800e-003	0.1779	0.0379	4.6000e-004	1.8356	3.3000e-004	1.8359	0.1852	3.2000e-004	0.1855		48.6925	48.6925	4.3000e-003		48.8000
Worker	0.0370	0.0222	0.2374	7.6000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		75.9072	75.9072	1.7500e-003		75.9511
Total	0.0418	0.2001	0.2753	1.2200e-003	19.1059	8.5000e-004	19.1067	1.9221	8.0000e-004	1.9229		124.5997	124.5997	6.0500e-003		124.7511

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	1.5798	16.3045	10.1821	0.0216		0.6912	0.6912		0.6425	0.6425	0.0000	2,041.2735	2,041.2735	0.6132		2,056.6027
Total	1.5798	16.3045	10.1821	0.0216		0.6912	0.6912		0.6425	0.6425	0.0000	2,041.2735	2,041.2735	0.6132		2,056.6027

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.3 New Storage Tanks - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.7800e-003	0.1779	0.0379	4.6000e-004	0.5430	3.3000e-004	0.5433	0.0560	3.2000e-004	0.0563		48.6925	48.6925	4.3000e-003		48.8000
Worker	0.0370	0.0222	0.2374	7.6000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		75.9072	75.9072	1.7500e-003		75.9511
Total	0.0418	0.2001	0.2753	1.2200e-003	5.6381	8.5000e-004	5.6389	0.5758	8.0000e-004	0.5766		124.5997	124.5997	6.0500e-003		124.7511

3.4 Painting Storage Tanks - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	3.8002					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	4.0191	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.4 Painting Storage Tanks - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0370	0.0222	0.2374	7.6000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		75.9072	75.9072	1.7500e-003		75.9511
Total	0.0370	0.0222	0.2374	7.6000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		75.9072	75.9072	1.7500e-003		75.9511

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	3.8002					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	4.0191	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.4 Painting Storage Tanks - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0370	0.0222	0.2374	7.6000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		75.9072	75.9072	1.7500e-003		75.9511
Total	0.0370	0.0222	0.2374	7.6000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		75.9072	75.9072	1.7500e-003		75.9511

3.5 Existing Storage Tanks - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2512	0.0000	0.2512	0.0380	0.0000	0.0380			0.0000			0.0000
Off-Road	3.8790	38.8127	25.1988	0.0467		1.9360	1.9360		1.8088	1.8088		4,500.7646	4,500.7646	1.1411		4,529.2923
Total	3.8790	38.8127	25.1988	0.0467	0.2512	1.9360	2.1872	0.0380	1.8088	1.8469		4,500.7646	4,500.7646	1.1411		4,529.2923

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.5 Existing Storage Tanks - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.2900e-003	0.2261	0.0345	7.6000e-004	3.0582	6.9000e-004	3.0589	0.3081	6.6000e-004	0.3088		80.5227	80.5227	5.2500e-003		80.6539
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0370	0.0222	0.2374	7.6000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		75.9072	75.9072	1.7500e-003		75.9511
Total	0.0423	0.2483	0.2718	1.5200e-003	20.3285	1.2100e-003	20.3297	2.0450	1.1400e-003	2.0462		156.4300	156.4300	7.0000e-003		156.6050

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					0.1074	0.0000	0.1074	0.0163	0.0000	0.0163			0.0000			0.0000
Off-Road	3.8790	38.8127	25.1988	0.0467		1.9360	1.9360		1.8088	1.8088	0.0000	4,500.7646	4,500.7646	1.1411		4,529.2923
Total	3.8790	38.8127	25.1988	0.0467	0.1074	1.9360	2.0434	0.0163	1.8088	1.8251	0.0000	4,500.7646	4,500.7646	1.1411		4,529.2923

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.5 Existing Storage Tanks - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.2900e-003	0.2261	0.0345	7.6000e-004	0.9039	6.9000e-004	0.9046	0.0928	6.6000e-004	0.0934		80.5227	80.5227	5.2500e-003		80.6539
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0370	0.0222	0.2374	7.6000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		75.9072	75.9072	1.7500e-003		75.9511
Total	0.0423	0.2483	0.2718	1.5200e-003	5.9990	1.2100e-003	6.0002	0.6125	1.1400e-003	0.6137		156.4300	156.4300	7.0000e-003		156.6050

3.6 After Demolition and For New Revetment - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0314	0.0000	6.0314	3.3112	0.0000	3.3112			0.0000			0.0000
Off-Road	1.7285	19.0493	9.0768	0.0203		0.8246	0.8246		0.7586	0.7586		1,969.2283	1,969.2283	0.6369		1,985.1505
Total	1.7285	19.0493	9.0768	0.0203	6.0314	0.8246	6.8560	3.3112	0.7586	4.0699		1,969.2283	1,969.2283	0.6369		1,985.1505

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.6 After Demolition and For New Revetment - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0370	0.0222	0.2374	7.6000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		75.9072	75.9072	1.7500e-003		75.9511
Total	0.0370	0.0222	0.2374	7.6000e-004	17.2703	5.2000e-004	17.2708	1.7369	4.8000e-004	1.7374		75.9072	75.9072	1.7500e-003		75.9511

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					2.5784	0.0000	2.5784	1.4156	0.0000	1.4156			0.0000			0.0000
Off-Road	1.7285	19.0493	9.0768	0.0203		0.8246	0.8246		0.7586	0.7586	0.0000	1,969.2283	1,969.2283	0.6369		1,985,1505
Total	1.7285	19.0493	9.0768	0.0203	2.5784	0.8246	3.4030	1.4156	0.7586	2.1742	0.0000	1,969.2283	1,969.2283	0.6369		1,985,1505

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.6 After Demolition and For New Revetment - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0370	0.0222	0.2374	7.6000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		75.9072	75.9072	1.7500e-003		75.9511
Total	0.0370	0.0222	0.2374	7.6000e-004	5.0951	5.2000e-004	5.0956	0.5198	4.8000e-004	0.5203		75.9072	75.9072	1.7500e-003		75.9511

3.6 After Demolition and For New Revetment - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0314	0.0000	6.0314	3.3112	0.0000	3.3112			0.0000			0.0000
Off-Road	1.4545	15.8282	8.5589	0.0203		0.6705	0.6705		0.6169	0.6169		1,968.3296	1,968.3296	0.6366		1,984.2445
Total	1.4545	15.8282	8.5589	0.0203	6.0314	0.6705	6.7019	3.3112	0.6169	3.9281		1,968.3296	1,968.3296	0.6366		1,984.2445

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.6 After Demolition and For New Revetment - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0347	0.0200	0.2186	7.3000e-004	17.2703	5.1000e-004	17.2708	1.7369	4.7000e-004	1.7374		73.1375	73.1375	1.5800e-003		73.1769
Total	0.0347	0.0200	0.2186	7.3000e-004	17.2703	5.1000e-004	17.2708	1.7369	4.7000e-004	1.7374		73.1375	73.1375	1.5800e-003		73.1769

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					2.5784	0.0000	2.5784	1.4156	0.0000	1.4156			0.0000			0.0000
Off-Road	1.4545	15.8282	8.5589	0.0203		0.6705	0.6705		0.6169	0.6169	0.0000	1,968.3296	1,968.3296	0.6366		1,984.2445
Total	1.4545	15.8282	8.5589	0.0203	2.5784	0.6705	3.2489	1.4156	0.6169	2.0324	0.0000	1,968.3296	1,968.3296	0.6366		1,984.2445

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

3.6 After Demolition and For New Revetment - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0347	0.0200	0.2186	7.3000e-004	5.0951	5.1000e-004	5.0956	0.5198	4.7000e-004	0.5202		73.1375	73.1375	1.5800e-003		73.1769
Total	0.0347	0.0200	0.2186	7.3000e-004	5.0951	5.1000e-004	5.0956	0.5198	4.7000e-004	0.5202		73.1375	73.1375	1.5800e-003		73.1769

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0000e-004	9.2000e-004	1.6600e-003	1.0000e-005	0.0682	1.0000e-005	0.0682	6.9000e-003	1.0000e-005	6.9100e-003		0.8375	0.8375	3.0000e-005		0.8383
Unmitigated	1.0000e-004	9.2000e-004	1.6600e-003	1.0000e-005	0.0682	1.0000e-005	0.0682	6.9000e-003	1.0000e-005	6.9100e-003		0.8375	0.8375	3.0000e-005		0.8383

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.05	0.05	0.05	331	331
Total	0.05	0.05	0.05	331	331

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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Unrefrigerated Warehouse-No Rail	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

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					
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
Unrefrigerated Warehouse-No Rail	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

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					
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
Unrefrigerated Warehouse-No Rail	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

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	0.1269	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-003
Unmitigated	0.1269	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	8.0900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1188					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-003
Total	0.1269	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-003

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

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	8.0900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1188					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-003
Total	0.1269	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-003	1.3000e-003	0.0000		1.3900e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Reservoir 4711-3 and 4711-4 Construction - Riverside-Salton Sea County, Winter

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

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

Equipment Type	Number
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11.0 Vegetation
