

## **APPENDIX A: CALEEMOD DATA SHEETS**



Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Annual

**Avenue 66-Sunbird-TMCC Sewer Consolidation**  
**Riverside-Salton Sea County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	21.78	1000sqft	0.50	21,780.00	0
Other Asphalt Surfaces	79.00	1000sqft	1.81	79,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	15			<b>Operational Year</b>	2023
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MW hr)</b>	1270.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

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Project Characteristics -

Land Use -

Construction Phase - see project description

Off-road Equipment -

Off-road Equipment -

Grading - see project description

Trips and VMT - see project description

Vehicle Trips - see project description

Landscape Equipment - see project description

Area Coating - see project description

Energy Use - see project description

Water And Wastewater - see project description

Solid Waste - see project description

Construction Off-road Equipment Mitigation - SCAQMD dust control measures

Consumer Products - see project description

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	10890	0
tblAreaCoating	Area_Nonresidential_Interior	32670	0
tblAreaCoating	Area_Parking	4740	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	131.00
tblConstructionPhase	NumDays	6.00	131.00
tblConstructionPhase	NumDays	10.00	131.00
tblConstructionPhase	PhaseEndDate	6/14/2023	12/30/2022

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tblConstructionPhase	PhaseEndDate	8/10/2022	12/30/2022
tblConstructionPhase	PhaseEndDate	6/28/2023	12/30/2022
tblConstructionPhase	PhaseStartDate	8/11/2022	7/1/2022
tblConstructionPhase	PhaseStartDate	8/3/2022	7/1/2022
tblConstructionPhase	PhaseStartDate	6/15/2023	7/1/2022
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	NT24E	36.52	1.50
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24NG	3.25	0.00
tblGrading	AcresOfGrading	65.50	3.00
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	20.47	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	12.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	5,036,625.00	0.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2022	9-30-2022	1.5700	1.5700
		Highest	1.5700	1.5700

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	0.0903	1.0000e-005	9.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-003	1.8000e-003	0.0000	0.0000	1.9200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	18.8333	18.8333	4.3000e-004	9.0000e-005	18.8705
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0903</b>	<b>1.0000e-005</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>18.8351</b>	<b>18.8351</b>	<b>4.3000e-004</b>	<b>9.0000e-005</b>	<b>18.8725</b>

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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	0.0903	1.0000e-005	9.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-003	1.8000e-003	0.0000	0.0000	1.9200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	18.8333	18.8333	4.3000e-004	9.0000e-005	18.8705
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0903</b>	<b>1.0000e-005</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>18.8351</b>	<b>18.8351</b>	<b>4.3000e-004</b>	<b>9.0000e-005</b>	<b>18.8725</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	Grading	7/1/2022	12/30/2022	5	131	
2	Building Construction	Building Construction	7/1/2022	12/30/2022	5	131	
3	Paving	Paving	7/1/2022	12/30/2022	5	131	

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**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 3****Acres of Paving: 1.81****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	8.00	46	0.45

**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	4	10.00	0.00	12.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	42.00	17.00	1.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	1.00	12.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3960	0.0000	0.3960	0.2170	0.0000	0.2170	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1009	1.1124	0.6039	1.3500e-003		0.0486	0.0486		0.0447	0.0447	0.0000	118.5728	118.5728	0.0384	0.0000	119.5315
<b>Total</b>	<b>0.1009</b>	<b>1.1124</b>	<b>0.6039</b>	<b>1.3500e-003</b>	<b>0.3960</b>	<b>0.0486</b>	<b>0.4447</b>	<b>0.2170</b>	<b>0.0447</b>	<b>0.2617</b>	<b>0.0000</b>	<b>118.5728</b>	<b>118.5728</b>	<b>0.0384</b>	<b>0.0000</b>	<b>119.5315</b>

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**3.2 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.2100e-003	1.8000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4256	0.4256	3.0000e-005	0.0000	0.4262
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	2.6200e-003	1.6900e-003	0.0189	6.0000e-005	7.1500e-003	4.0000e-005	7.1900e-003	1.9000e-003	4.0000e-005	1.9400e-003	0.0000	5.5722	5.5722	1.2000e-004	0.0000	5.5752
<b>Total</b>	<b>2.6500e-003</b>	<b>2.9000e-003</b>	<b>0.0191</b>	<b>6.0000e-005</b>	<b>7.2500e-003</b>	<b>4.0000e-005</b>	<b>7.3000e-003</b>	<b>1.9300e-003</b>	<b>4.0000e-005</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>5.9977</b>	<b>5.9977</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>6.0014</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1782	0.0000	0.1782	0.0977	0.0000	0.0977	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1009	1.1124	0.6039	1.3500e-003		0.0486	0.0486		0.0447	0.0447	0.0000	118.5726	118.5726	0.0384	0.0000	119.5313
<b>Total</b>	<b>0.1009</b>	<b>1.1124</b>	<b>0.6039</b>	<b>1.3500e-003</b>	<b>0.1782</b>	<b>0.0486</b>	<b>0.2268</b>	<b>0.0977</b>	<b>0.0447</b>	<b>0.1424</b>	<b>0.0000</b>	<b>118.5726</b>	<b>118.5726</b>	<b>0.0384</b>	<b>0.0000</b>	<b>119.5313</b>

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**3.2 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.2100e-003	1.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4256	0.4256	3.0000e-005	0.0000	0.4262
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	2.6200e-003	1.6900e-003	0.0189	6.0000e-005	6.8400e-003	4.0000e-005	6.8800e-003	1.8200e-003	4.0000e-005	1.8600e-003	0.0000	5.5722	5.5722	1.2000e-004	0.0000	5.5752
<b>Total</b>	<b>2.6500e-003</b>	<b>2.9000e-003</b>	<b>0.0191</b>	<b>6.0000e-005</b>	<b>6.9400e-003</b>	<b>4.0000e-005</b>	<b>6.9800e-003</b>	<b>1.8500e-003</b>	<b>4.0000e-005</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>5.9977</b>	<b>5.9977</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>6.0014</b>

**3.3 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1254	0.9807	0.9603	1.6900e-003		0.0469	0.0469		0.0450	0.0450	0.0000	139.0322	139.0322	0.0266	0.0000	139.6961
<b>Total</b>	<b>0.1254</b>	<b>0.9807</b>	<b>0.9603</b>	<b>1.6900e-003</b>		<b>0.0469</b>	<b>0.0469</b>		<b>0.0450</b>	<b>0.0450</b>	<b>0.0000</b>	<b>139.0322</b>	<b>139.0322</b>	<b>0.0266</b>	<b>0.0000</b>	<b>139.6961</b>

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**3.3 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.0000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0355	0.0355	0.0000	0.0000	0.0355
Vendor	2.3800e-003	0.0951	0.0180	2.6000e-004	6.3200e-003	1.5000e-004	6.4700e-003	1.8200e-003	1.5000e-004	1.9700e-003	0.0000	24.9783	24.9783	1.9400e-003	0.0000	25.0267
Worker	0.0110	7.1100e-003	0.0793	2.6000e-004	0.0300	1.8000e-004	0.0302	7.9700e-003	1.6000e-004	8.1400e-003	0.0000	23.4031	23.4031	5.1000e-004	0.0000	23.4158
<b>Total</b>	<b>0.0134</b>	<b>0.1023</b>	<b>0.0973</b>	<b>5.2000e-004</b>	<b>0.0364</b>	<b>3.3000e-004</b>	<b>0.0367</b>	<b>9.7900e-003</b>	<b>3.1000e-004</b>	<b>0.0101</b>	<b>0.0000</b>	<b>48.4169</b>	<b>48.4169</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>48.4781</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1254	0.9807	0.9603	1.6900e-003		0.0469	0.0469		0.0450	0.0450	0.0000	139.0320	139.0320	0.0266	0.0000	139.6959
<b>Total</b>	<b>0.1254</b>	<b>0.9807</b>	<b>0.9603</b>	<b>1.6900e-003</b>		<b>0.0469</b>	<b>0.0469</b>		<b>0.0450</b>	<b>0.0450</b>	<b>0.0000</b>	<b>139.0320</b>	<b>139.0320</b>	<b>0.0266</b>	<b>0.0000</b>	<b>139.6959</b>

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**3.3 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.0000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0355	0.0355	0.0000	0.0000	0.0355
Vendor	2.3800e-003	0.0951	0.0180	2.6000e-004	6.1000e-003	1.5000e-004	6.2500e-003	1.7700e-003	1.5000e-004	1.9100e-003	0.0000	24.9783	24.9783	1.9400e-003	0.0000	25.0267
Worker	0.0110	7.1100e-003	0.0793	2.6000e-004	0.0287	1.8000e-004	0.0289	7.6500e-003	1.6000e-004	7.8200e-003	0.0000	23.4031	23.4031	5.1000e-004	0.0000	23.4158
<b>Total</b>	<b>0.0134</b>	<b>0.1023</b>	<b>0.0973</b>	<b>5.2000e-004</b>	<b>0.0348</b>	<b>3.3000e-004</b>	<b>0.0352</b>	<b>9.4200e-003</b>	<b>3.1000e-004</b>	<b>9.7300e-003</b>	<b>0.0000</b>	<b>48.4169</b>	<b>48.4169</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>48.4781</b>

**3.4 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0617	0.6113	0.7662	1.1700e-003		0.0320	0.0320		0.0295	0.0295	0.0000	101.5908	101.5908	0.0322	0.0000	102.3957
Paving	2.3700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0640</b>	<b>0.6113</b>	<b>0.7662</b>	<b>1.1700e-003</b>		<b>0.0320</b>	<b>0.0320</b>		<b>0.0295</b>	<b>0.0295</b>	<b>0.0000</b>	<b>101.5908</b>	<b>101.5908</b>	<b>0.0322</b>	<b>0.0000</b>	<b>102.3957</b>

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**3.4 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.2100e-003	1.8000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4256	0.4256	3.0000e-005	0.0000	0.4262
Vendor	1.4000e-004	5.5900e-003	1.0600e-003	2.0000e-005	3.7000e-004	1.0000e-005	3.8000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4693	1.4693	1.1000e-004	0.0000	1.4722
Worker	3.9300e-003	2.5400e-003	0.0283	9.0000e-005	0.0107	6.0000e-005	0.0108	2.8500e-003	6.0000e-005	2.9100e-003	0.0000	8.3583	8.3583	1.8000e-004	0.0000	8.3628
<b>Total</b>	<b>4.1000e-003</b>	<b>9.3400e-003</b>	<b>0.0296</b>	<b>1.1000e-004</b>	<b>0.0112</b>	<b>7.0000e-005</b>	<b>0.0113</b>	<b>2.9900e-003</b>	<b>7.0000e-005</b>	<b>3.0600e-003</b>	<b>0.0000</b>	<b>10.2531</b>	<b>10.2531</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>10.2611</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0617	0.6113	0.7662	1.1700e-003		0.0320	0.0320		0.0295	0.0295	0.0000	101.5906	101.5906	0.0322	0.0000	102.3956
Paving	2.3700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0640</b>	<b>0.6113</b>	<b>0.7662</b>	<b>1.1700e-003</b>		<b>0.0320</b>	<b>0.0320</b>		<b>0.0295</b>	<b>0.0295</b>	<b>0.0000</b>	<b>101.5906</b>	<b>101.5906</b>	<b>0.0322</b>	<b>0.0000</b>	<b>102.3956</b>

Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Annual

**3.4 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.2100e-003	1.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4256	0.4256	3.0000e-005	0.0000	0.4262
Vendor	1.4000e-004	5.5900e-003	1.0600e-003	2.0000e-005	3.6000e-004	1.0000e-005	3.7000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.4693	1.4693	1.1000e-004	0.0000	1.4722
Worker	3.9300e-003	2.5400e-003	0.0283	9.0000e-005	0.0103	6.0000e-005	0.0103	2.7300e-003	6.0000e-005	2.7900e-003	0.0000	8.3583	8.3583	1.8000e-004	0.0000	8.3628
<b>Total</b>	<b>4.1000e-003</b>	<b>9.3400e-003</b>	<b>0.0296</b>	<b>1.1000e-004</b>	<b>0.0107</b>	<b>7.0000e-005</b>	<b>0.0108</b>	<b>2.8600e-003</b>	<b>7.0000e-005</b>	<b>2.9300e-003</b>	<b>0.0000</b>	<b>10.2531</b>	<b>10.2531</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>10.2611</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Avenue 66-Sunbird-TMCC Sewer Consolidation - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

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

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	13.80	6.20	6.20	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	13.80	6.20	6.20	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Refrigerated Warehouse-No Rail	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	18.8333	18.8333	4.3000e-004	9.0000e-005	18.8705
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	18.8333	18.8333	4.3000e-004	9.0000e-005	18.8705
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	32670	18.8333	4.3000e-004	9.0000e-005	18.8705
<b>Total</b>		<b>18.8333</b>	<b>4.3000e-004</b>	<b>9.0000e-005</b>	<b>18.8705</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	32670	18.8333	4.3000e-004	9.0000e-005	18.8705
<b>Total</b>		<b>18.8333</b>	<b>4.3000e-004</b>	<b>9.0000e-005</b>	<b>18.8705</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0903	1.0000e-005	9.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-003	1.8000e-003	0.0000	0.0000	1.9200e-003
Unmitigated	0.0903	1.0000e-005	9.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-003	1.8000e-003	0.0000	0.0000	1.9200e-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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	9.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-003	1.8000e-003	0.0000	0.0000	1.9200e-003
<b>Total</b>	<b>0.0903</b>	<b>1.0000e-005</b>	<b>9.3000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8000e-003</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9200e-003</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	9.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8000e-003	1.8000e-003	0.0000	0.0000	1.9200e-003
<b>Total</b>	<b>0.0903</b>	<b>1.0000e-005</b>	<b>9.3000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8000e-003</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9200e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Avenue 66-Sunbird-TMCC Sewer Consolidation - 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 Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

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

Avenue 66-Sunbird-TMCC Sewer Consolidation - 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 Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Summer

**Avenue 66-Sunbird-TMCC Sewer Consolidation**  
**Riverside-Salton Sea County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	21.78	1000sqft	0.50	21,780.00	0
Other Asphalt Surfaces	79.00	1000sqft	1.81	79,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	15			<b>Operational Year</b>	2023
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MWhr)</b>	1270.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Summer

Project Characteristics -

Land Use -

Construction Phase - see project description

Off-road Equipment -

Off-road Equipment -

Grading - see project description

Trips and VMT - see project description

Vehicle Trips - see project description

Landscape Equipment - see project description

Area Coating - see project description

Energy Use - see project description

Water And Wastewater - see project description

Solid Waste - see project description

Construction Off-road Equipment Mitigation - SCAQMD dust control measures

Consumer Products - see project description

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	10890	0
tblAreaCoating	Area_Nonresidential_Interior	32670	0
tblAreaCoating	Area_Parking	4740	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	131.00
tblConstructionPhase	NumDays	6.00	131.00
tblConstructionPhase	NumDays	10.00	131.00
tblConstructionPhase	PhaseEndDate	6/14/2023	12/30/2022

## Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Summer

tblConstructionPhase	PhaseEndDate	8/10/2022	12/30/2022
tblConstructionPhase	PhaseEndDate	6/28/2023	12/30/2022
tblConstructionPhase	PhaseStartDate	8/11/2022	7/1/2022
tblConstructionPhase	PhaseStartDate	8/3/2022	7/1/2022
tblConstructionPhase	PhaseStartDate	6/15/2023	7/1/2022
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	NT24E	36.52	1.50
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24NG	3.25	0.00
tblGrading	AcresOfGrading	65.50	3.00
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	20.47	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	12.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	12.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	5,036,625.00	0.00

## 2.0 Emissions Summary

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Avenue 66-Sunbird-TMCC Sewer Consolidation - 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	0.4950	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0221	0.0221	6.0000e-005		0.0235
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.4950</b>	<b>9.0000e-005</b>	<b>0.0103</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0221</b>	<b>0.0221</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0235</b>

**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	0.4950	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0221	0.0221	6.0000e-005		0.0235
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.4950</b>	<b>9.0000e-005</b>	<b>0.0103</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0221</b>	<b>0.0221</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0235</b>

## Avenue 66-Sunbird-TMCC Sewer Consolidation - 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

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2022	12/30/2022	5	131	
2	Building Construction	Building Construction	7/1/2022	12/30/2022	5	131	
3	Paving	Paving	7/1/2022	12/30/2022	5	131	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 1.81

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

#### OffRoad Equipment

Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	4	10.00	0.00	12.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	42.00	17.00	1.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	1.00	12.00	14.60	6.20	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Summer

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0464	0.0000	6.0464	3.3129	0.0000	3.3129			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
<b>Total</b>	<b>1.5403</b>	<b>16.9836</b>	<b>9.2202</b>	<b>0.0206</b>	<b>6.0464</b>	<b>0.7423</b>	<b>6.7887</b>	<b>3.3129</b>	<b>0.6829</b>	<b>3.9958</b>		<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>

Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Summer

**3.2 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2000e-004	0.0181	2.5400e-003	7.0000e-005	1.6000e-003	5.0000e-005	1.6500e-003	4.4000e-004	5.0000e-005	4.9000e-004		7.2387	7.2387	4.1000e-004		7.2490
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	0.0441	0.0242	0.3389	1.0200e-003	0.1110	6.4000e-004	0.1117	0.0294	5.9000e-004	0.0300		101.9012	101.9012	2.2700e-003		101.9579
<b>Total</b>	<b>0.0446</b>	<b>0.0423</b>	<b>0.3415</b>	<b>1.0900e-003</b>	<b>0.1126</b>	<b>6.9000e-004</b>	<b>0.1133</b>	<b>0.0299</b>	<b>6.4000e-004</b>	<b>0.0305</b>		<b>109.1400</b>	<b>109.1400</b>	<b>2.6800e-003</b>		<b>109.2068</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7209	0.0000	2.7209	1.4908	0.0000	1.4908			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
<b>Total</b>	<b>1.5403</b>	<b>16.9836</b>	<b>9.2202</b>	<b>0.0206</b>	<b>2.7209</b>	<b>0.7423</b>	<b>3.4632</b>	<b>1.4908</b>	<b>0.6829</b>	<b>2.1737</b>	<b>0.0000</b>	<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>

Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Summer

**3.2 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2000e-004	0.0181	2.5400e-003	7.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		7.2387	7.2387	4.1000e-004		7.2490
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	0.0441	0.0242	0.3389	1.0200e-003	0.1062	6.4000e-004	0.1068	0.0283	5.9000e-004	0.0288		101.9012	101.9012	2.2700e-003		101.9579
<b>Total</b>	<b>0.0446</b>	<b>0.0423</b>	<b>0.3415</b>	<b>1.0900e-003</b>	<b>0.1077</b>	<b>6.9000e-004</b>	<b>0.1084</b>	<b>0.0287</b>	<b>6.4000e-004</b>	<b>0.0293</b>		<b>109.1400</b>	<b>109.1400</b>	<b>2.6800e-003</b>		<b>109.2068</b>

**3.3 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9143	14.9722	14.6617	0.0257		0.7165	0.7165		0.6874	0.6874		2,339.7976	2,339.7976	0.4469		2,350.9704
<b>Total</b>	<b>1.9143</b>	<b>14.9722</b>	<b>14.6617</b>	<b>0.0257</b>		<b>0.7165</b>	<b>0.7165</b>		<b>0.6874</b>	<b>0.6874</b>		<b>2,339.7976</b>	<b>2,339.7976</b>	<b>0.4469</b>		<b>2,350.9704</b>

Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Summer

**3.3 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0000e-005	1.5100e-003	2.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005		0.6032	0.6032	3.0000e-005		0.6041
Vendor	0.0356	1.4447	0.2520	4.0500e-003	0.0979	2.2800e-003	0.1001	0.0282	2.1800e-003	0.0304		427.6814	427.6814	0.0310		428.4564
Worker	0.1854	0.1015	1.4235	4.2900e-003	0.4663	2.6800e-003	0.4690	0.1237	2.4600e-003	0.1261		427.9852	427.9852	9.5200e-003		428.2231
<b>Total</b>	<b>0.2209</b>	<b>1.5477</b>	<b>1.6757</b>	<b>8.3500e-003</b>	<b>0.5643</b>	<b>4.9600e-003</b>	<b>0.5692</b>	<b>0.1519</b>	<b>4.6400e-003</b>	<b>0.1565</b>		<b>856.2698</b>	<b>856.2698</b>	<b>0.0406</b>		<b>857.2836</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9143	14.9722	14.6617	0.0257		0.7165	0.7165		0.6874	0.6874	0.0000	2,339.7976	2,339.7976	0.4469		2,350.9704
<b>Total</b>	<b>1.9143</b>	<b>14.9722</b>	<b>14.6617</b>	<b>0.0257</b>		<b>0.7165</b>	<b>0.7165</b>		<b>0.6874</b>	<b>0.6874</b>	<b>0.0000</b>	<b>2,339.7976</b>	<b>2,339.7976</b>	<b>0.4469</b>		<b>2,350.9704</b>

Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Summer

**3.3 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0000e-005	1.5100e-003	2.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005		0.6032	0.6032	3.0000e-005		0.6041
Vendor	0.0356	1.4447	0.2520	4.0500e-003	0.0944	2.2800e-003	0.0967	0.0273	2.1800e-003	0.0295		427.6814	427.6814	0.0310		428.4564
Worker	0.1854	0.1015	1.4235	4.2900e-003	0.4460	2.6800e-003	0.4487	0.1187	2.4600e-003	0.1212		427.9852	427.9852	9.5200e-003		428.2231
<b>Total</b>	<b>0.2209</b>	<b>1.5477</b>	<b>1.6757</b>	<b>8.3500e-003</b>	<b>0.5405</b>	<b>4.9600e-003</b>	<b>0.5455</b>	<b>0.1460</b>	<b>4.6400e-003</b>	<b>0.1507</b>		<b>856.2698</b>	<b>856.2698</b>	<b>0.0406</b>		<b>857.2836</b>

**3.4 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	0.0362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9774</b>	<b>9.3322</b>	<b>11.6970</b>	<b>0.0179</b>		<b>0.4879</b>	<b>0.4879</b>		<b>0.4500</b>	<b>0.4500</b>		<b>1,709.6892</b>	<b>1,709.6892</b>	<b>0.5419</b>		<b>1,723.2356</b>

Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Summer

**3.4 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2000e-004	0.0181	2.5400e-003	7.0000e-005	1.6000e-003	5.0000e-005	1.6500e-003	4.4000e-004	5.0000e-005	4.9000e-004		7.2387	7.2387	4.1000e-004		7.2490
Vendor	2.0900e-003	0.0850	0.0148	2.4000e-004	5.7600e-003	1.3000e-004	5.8900e-003	1.6600e-003	1.3000e-004	1.7900e-003		25.1577	25.1577	1.8200e-003		25.2033
Worker	0.0662	0.0362	0.5084	1.5300e-003	0.1665	9.6000e-004	0.1675	0.0442	8.8000e-004	0.0450		152.8519	152.8519	3.4000e-003		152.9368
<b>Total</b>	<b>0.0687</b>	<b>0.1394</b>	<b>0.5257</b>	<b>1.8400e-003</b>	<b>0.1739</b>	<b>1.1400e-003</b>	<b>0.1750</b>	<b>0.0463</b>	<b>1.0600e-003</b>	<b>0.0473</b>		<b>185.2483</b>	<b>185.2483</b>	<b>5.6300e-003</b>		<b>185.3891</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500	0.0000	1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	0.0362					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9774</b>	<b>9.3322</b>	<b>11.6970</b>	<b>0.0179</b>		<b>0.4879</b>	<b>0.4879</b>		<b>0.4500</b>	<b>0.4500</b>	<b>0.0000</b>	<b>1,709.6892</b>	<b>1,709.6892</b>	<b>0.5419</b>		<b>1,723.2356</b>

Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Summer

**3.4 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2000e-004	0.0181	2.5400e-003	7.0000e-005	1.5400e-003	5.0000e-005	1.5900e-003	4.2000e-004	5.0000e-005	4.7000e-004		7.2387	7.2387	4.1000e-004		7.2490
Vendor	2.0900e-003	0.0850	0.0148	2.4000e-004	5.5500e-003	1.3000e-004	5.6900e-003	1.6100e-003	1.3000e-004	1.7400e-003		25.1577	25.1577	1.8200e-003		25.2033
Worker	0.0662	0.0362	0.5084	1.5300e-003	0.1593	9.6000e-004	0.1602	0.0424	8.8000e-004	0.0433		152.8519	152.8519	3.4000e-003		152.9368
<b>Total</b>	<b>0.0687</b>	<b>0.1394</b>	<b>0.5257</b>	<b>1.8400e-003</b>	<b>0.1664</b>	<b>1.1400e-003</b>	<b>0.1675</b>	<b>0.0444</b>	<b>1.0600e-003</b>	<b>0.0455</b>		<b>185.2483</b>	<b>185.2483</b>	<b>5.6300e-003</b>		<b>185.3891</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Avenue 66-Sunbird-TMCC Sewer Consolidation - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

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

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	13.80	6.20	6.20	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	13.80	6.20	6.20	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Refrigerated Warehouse-No Rail	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

Avenue 66-Sunbird-TMCC Sewer Consolidation - 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

Avenue 66-Sunbird-TMCC Sewer Consolidation - Riverside-Salton Sea County, Summer

**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 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
Refrigerated 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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 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
Refrigerated 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Avenue 66-Sunbird-TMCC Sewer Consolidation - 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	0.4950	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0221	0.0221	6.0000e-005		0.0235
Unmitigated	0.4950	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0221	0.0221	6.0000e-005		0.0235

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.5000e-004	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0221	0.0221	6.0000e-005		0.0235
<b>Total</b>	<b>0.4950</b>	<b>9.0000e-005</b>	<b>0.0103</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0221</b>	<b>0.0221</b>	<b>6.0000e-005</b>		<b>0.0235</b>

Avenue 66-Sunbird-TMCC Sewer Consolidation - 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4941					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.5000e-004	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0221	0.0221	6.0000e-005		0.0235
<b>Total</b>	<b>0.4950</b>	<b>9.0000e-005</b>	<b>0.0103</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0221</b>	<b>0.0221</b>	<b>6.0000e-005</b>		<b>0.0235</b>

**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

## Avenue 66-Sunbird-TMCC Sewer Consolidation - 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**

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