

# **APPENDIX A**

## *Miramar Reservoir Alternative CalEEMod Outputs and Estimated Emissions*



Morena Pipeline-Open Trench - San Diego County APCD Air District, Annual

**Morena Pipeline-Open Trench**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	118.50	1000sqft	2.72	118,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

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Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Stationary Sources - User Defined - No stationary sources.

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Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.  
 Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	59250	0
tblAreaCoating	Area_Nonresidential_Interior	177750	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorV alue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorV alue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	220.00	135.00

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tblConstructionPhase	NumDays	10.00	134.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	146.94	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	50.00
tblTripsAndVMT	VendorTripNumber	19.00	2.00
tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	50.00	64.00

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tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	27,403,125.00	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	10-1-2020	12-31-2020	0.6593	0.3958
2	1-1-2021	3-31-2021	0.5820	0.3851
3	4-1-2021	6-30-2021	0.4714	0.3938
4	7-1-2021	9-30-2021	0.4700	0.3938
		Highest	0.6593	0.3958

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	0.4629	1.0000e-005	1.0900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.1200e-003	2.1200e-003	1.0000e-005	0.0000	2.2600e-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	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.4629</b>	<b>1.0000e-005</b>	<b>1.0900e-003</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>2.1200e-003</b>	<b>2.1200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.2600e-003</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	0.4629	1.0000e-005	6.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1400e-003	1.1400e-003	0.0000	0.0000	1.2000e-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	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.4629</b>	<b>1.0000e-005</b>	<b>6.3000e-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>1.1400e-003</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-003</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.01</b>	<b>0.00</b>	<b>42.20</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>46.23</b>	<b>46.23</b>	<b>100.00</b>	<b>0.00</b>	<b>46.90</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Trenching	Trenching	3/20/2020	9/24/2020	5	135	
2	Building Construction	Building Construction	9/25/2020	4/1/2021	5	135	Pipeline installation and backfill.
3	Paving	Paving	4/1/2021	10/5/2021	5	134	

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**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trenching	Excavators	2	8.00	158	0.38
Trenching	Rubber Tired Dozers	2	8.00	247	0.40
Trenching	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Trenching	Trenchers	2	8.00	78	0.50
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Trenching	10	26.00	0.00	50.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	64.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Trenching - 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					
Off-Road	0.2920	2.9365	1.9703	3.1400e-003		0.1650	0.1650		0.1518	0.1518	0.0000	276.2689	276.2689	0.0894	0.0000	278.5027
<b>Total</b>	<b>0.2920</b>	<b>2.9365</b>	<b>1.9703</b>	<b>3.1400e-003</b>		<b>0.1650</b>	<b>0.1650</b>		<b>0.1518</b>	<b>0.1518</b>	<b>0.0000</b>	<b>276.2689</b>	<b>276.2689</b>	<b>0.0894</b>	<b>0.0000</b>	<b>278.5027</b>

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**3.2 Trenching - 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	2.0000e-004	7.1100e-003	1.6300e-003	2.0000e-005	4.3000e-004	2.0000e-005	4.5000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	1.9281	1.9281	1.7000e-004	0.0000	1.9325
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	9.0900e-003	7.1200e-003	0.0680	2.2000e-004	0.0219	1.5000e-004	0.0220	5.8100e-003	1.4000e-004	5.9500e-003	0.0000	19.5885	19.5885	5.7000e-004	0.0000	19.6027
<b>Total</b>	<b>9.2900e-003</b>	<b>0.0142</b>	<b>0.0697</b>	<b>2.4000e-004</b>	<b>0.0223</b>	<b>1.7000e-004</b>	<b>0.0225</b>	<b>5.9300e-003</b>	<b>1.6000e-004</b>	<b>6.0900e-003</b>	<b>0.0000</b>	<b>21.5166</b>	<b>21.5166</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>21.5352</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	0.0770	1.6001	2.1165	3.1400e-003		0.0874	0.0874		0.0874	0.0874	0.0000	276.2686	276.2686	0.0894	0.0000	278.5024
<b>Total</b>	<b>0.0770</b>	<b>1.6001</b>	<b>2.1165</b>	<b>3.1400e-003</b>		<b>0.0874</b>	<b>0.0874</b>		<b>0.0874</b>	<b>0.0874</b>	<b>0.0000</b>	<b>276.2686</b>	<b>276.2686</b>	<b>0.0894</b>	<b>0.0000</b>	<b>278.5024</b>

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**3.2 Trenching - 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	2.0000e-004	7.1100e-003	1.6300e-003	2.0000e-005	4.3000e-004	2.0000e-005	4.5000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	1.9281	1.9281	1.7000e-004	0.0000	1.9325
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	9.0900e-003	7.1200e-003	0.0680	2.2000e-004	0.0219	1.5000e-004	0.0220	5.8100e-003	1.4000e-004	5.9500e-003	0.0000	19.5885	19.5885	5.7000e-004	0.0000	19.6027
<b>Total</b>	<b>9.2900e-003</b>	<b>0.0142</b>	<b>0.0697</b>	<b>2.4000e-004</b>	<b>0.0223</b>	<b>1.7000e-004</b>	<b>0.0225</b>	<b>5.9300e-003</b>	<b>1.6000e-004</b>	<b>6.0900e-003</b>	<b>0.0000</b>	<b>21.5166</b>	<b>21.5166</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>21.5352</b>

**3.3 Building Construction - 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					
Off-Road	0.0565	0.6156	0.3903	7.3000e-004		0.0316	0.0316		0.0291	0.0291	0.0000	63.9849	63.9849	0.0207	0.0000	64.5022
<b>Total</b>	<b>0.0565</b>	<b>0.6156</b>	<b>0.3903</b>	<b>7.3000e-004</b>		<b>0.0316</b>	<b>0.0316</b>		<b>0.0291</b>	<b>0.0291</b>	<b>0.0000</b>	<b>63.9849</b>	<b>63.9849</b>	<b>0.0207</b>	<b>0.0000</b>	<b>64.5022</b>

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**3.3 Building Construction - 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	2.5000e-004	7.6300e-003	2.0200e-003	2.0000e-005	4.2000e-004	4.0000e-005	4.6000e-004	1.2000e-004	3.0000e-005	1.6000e-004	0.0000	1.7053	1.7053	1.3000e-004	0.0000	1.7087
Worker	0.0116	9.0900e-003	0.0868	2.8000e-004	0.0279	1.9000e-004	0.0281	7.4200e-003	1.8000e-004	7.6000e-003	0.0000	25.0018	25.0018	7.3000e-004	0.0000	25.0200
<b>Total</b>	<b>0.0119</b>	<b>0.0167</b>	<b>0.0889</b>	<b>3.0000e-004</b>	<b>0.0284</b>	<b>2.3000e-004</b>	<b>0.0286</b>	<b>7.5400e-003</b>	<b>2.1000e-004</b>	<b>7.7600e-003</b>	<b>0.0000</b>	<b>26.7071</b>	<b>26.7071</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>26.7287</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	0.0179	0.3735	0.4603	7.3000e-004		0.0200	0.0200		0.0200	0.0200	0.0000	63.9848	63.9848	0.0207	0.0000	64.5021
<b>Total</b>	<b>0.0179</b>	<b>0.3735</b>	<b>0.4603</b>	<b>7.3000e-004</b>		<b>0.0200</b>	<b>0.0200</b>		<b>0.0200</b>	<b>0.0200</b>	<b>0.0000</b>	<b>63.9848</b>	<b>63.9848</b>	<b>0.0207</b>	<b>0.0000</b>	<b>64.5021</b>

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**3.3 Building Construction - 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	2.5000e-004	7.6300e-003	2.0200e-003	2.0000e-005	4.2000e-004	4.0000e-005	4.6000e-004	1.2000e-004	3.0000e-005	1.6000e-004	0.0000	1.7053	1.7053	1.3000e-004	0.0000	1.7087
Worker	0.0116	9.0900e-003	0.0868	2.8000e-004	0.0279	1.9000e-004	0.0281	7.4200e-003	1.8000e-004	7.6000e-003	0.0000	25.0018	25.0018	7.3000e-004	0.0000	25.0200
<b>Total</b>	<b>0.0119</b>	<b>0.0167</b>	<b>0.0889</b>	<b>3.0000e-004</b>	<b>0.0284</b>	<b>2.3000e-004</b>	<b>0.0286</b>	<b>7.5400e-003</b>	<b>2.1000e-004</b>	<b>7.7600e-003</b>	<b>0.0000</b>	<b>26.7071</b>	<b>26.7071</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>26.7287</b>

**3.3 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0474	0.5151	0.3517	6.8000e-004		0.0255	0.0255		0.0235	0.0235	0.0000	59.4193	59.4193	0.0192	0.0000	59.8997
<b>Total</b>	<b>0.0474</b>	<b>0.5151</b>	<b>0.3517</b>	<b>6.8000e-004</b>		<b>0.0255</b>	<b>0.0255</b>		<b>0.0235</b>	<b>0.0235</b>	<b>0.0000</b>	<b>59.4193</b>	<b>59.4193</b>	<b>0.0192</b>	<b>0.0000</b>	<b>59.8997</b>



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**3.3 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	6.4100e-003	1.7000e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.5689	1.5689	1.2000e-004	0.0000	1.5719
Worker	0.0102	7.6700e-003	0.0754	2.5000e-004	0.0259	1.8000e-004	0.0261	6.8900e-003	1.6000e-004	7.0500e-003	0.0000	22.4355	22.4355	6.2000e-004	0.0000	22.4511
<b>Total</b>	<b>0.0104</b>	<b>0.0141</b>	<b>0.0771</b>	<b>2.7000e-004</b>	<b>0.0263</b>	<b>1.9000e-004</b>	<b>0.0265</b>	<b>7.0000e-003</b>	<b>1.7000e-004</b>	<b>7.1800e-003</b>	<b>0.0000</b>	<b>24.0044</b>	<b>24.0044</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>24.0230</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	0.0166	0.3468	0.4274	6.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	59.4192	59.4192	0.0192	0.0000	59.8996
<b>Total</b>	<b>0.0166</b>	<b>0.3468</b>	<b>0.4274</b>	<b>6.8000e-004</b>		<b>0.0186</b>	<b>0.0186</b>		<b>0.0186</b>	<b>0.0186</b>	<b>0.0000</b>	<b>59.4192</b>	<b>59.4192</b>	<b>0.0192</b>	<b>0.0000</b>	<b>59.8996</b>

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**3.3 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	6.4100e-003	1.7000e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.5689	1.5689	1.2000e-004	0.0000	1.5719
Worker	0.0102	7.6700e-003	0.0754	2.5000e-004	0.0259	1.8000e-004	0.0261	6.8900e-003	1.6000e-004	7.0500e-003	0.0000	22.4355	22.4355	6.2000e-004	0.0000	22.4511
<b>Total</b>	<b>0.0104</b>	<b>0.0141</b>	<b>0.0771</b>	<b>2.7000e-004</b>	<b>0.0263</b>	<b>1.9000e-004</b>	<b>0.0265</b>	<b>7.0000e-003</b>	<b>1.7000e-004</b>	<b>7.1800e-003</b>	<b>0.0000</b>	<b>24.0044</b>	<b>24.0044</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>24.0230</b>

**3.4 Paving - 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	0.0841	0.8656	0.9818	1.5300e-003		0.0454	0.0454		0.0418	0.0418	0.0000	134.1573	134.1573	0.0434	0.0000	135.2421
Paving	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>0.0841</b>	<b>0.8656</b>	<b>0.9818</b>	<b>1.5300e-003</b>		<b>0.0454</b>	<b>0.0454</b>		<b>0.0418</b>	<b>0.0418</b>	<b>0.0000</b>	<b>134.1573</b>	<b>134.1573</b>	<b>0.0434</b>	<b>0.0000</b>	<b>135.2421</b>

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**3.4 Paving - 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	5.2500e-003	3.9600e-003	0.0389	1.3000e-004	0.0134	9.0000e-005	0.0135	3.5500e-003	8.0000e-005	3.6300e-003	0.0000	11.5629	11.5629	3.2000e-004	0.0000	11.5709
<b>Total</b>	<b>5.2500e-003</b>	<b>3.9600e-003</b>	<b>0.0389</b>	<b>1.3000e-004</b>	<b>0.0134</b>	<b>9.0000e-005</b>	<b>0.0135</b>	<b>3.5500e-003</b>	<b>8.0000e-005</b>	<b>3.6300e-003</b>	<b>0.0000</b>	<b>11.5629</b>	<b>11.5629</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>11.5709</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	0.0376	0.7568	1.1588	1.5300e-003		0.0408	0.0408		0.0408	0.0408	0.0000	134.1572	134.1572	0.0434	0.0000	135.2419
Paving	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>0.0376</b>	<b>0.7568</b>	<b>1.1588</b>	<b>1.5300e-003</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>134.1572</b>	<b>134.1572</b>	<b>0.0434</b>	<b>0.0000</b>	<b>135.2419</b>

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**3.4 Paving - 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	5.2500e-003	3.9600e-003	0.0389	1.3000e-004	0.0134	9.0000e-005	0.0135	3.5500e-003	8.0000e-005	3.6300e-003	0.0000	11.5629	11.5629	3.2000e-004	0.0000	11.5709
<b>Total</b>	<b>5.2500e-003</b>	<b>3.9600e-003</b>	<b>0.0389</b>	<b>1.3000e-004</b>	<b>0.0134</b>	<b>9.0000e-005</b>	<b>0.0135</b>	<b>3.5500e-003</b>	<b>8.0000e-005</b>	<b>3.6300e-003</b>	<b>0.0000</b>	<b>11.5629</b>	<b>11.5629</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>11.5709</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N



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**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr						
General Light Industry	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	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>	<b>0.0000</b>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed



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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	0.4629	1.0000e-005	6.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1400e-003	1.1400e-003	0.0000	0.0000	1.2000e-003
Unmitigated	0.4629	1.0000e-005	1.0900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.1200e-003	2.1200e-003	1.0000e-005	0.0000	2.2600e-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	0.4628					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.1200e-003	2.1200e-003	1.0000e-005	0.0000	2.2600e-003
<b>Total</b>	<b>0.4629</b>	<b>1.0000e-005</b>	<b>1.0900e-003</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>2.1200e-003</b>	<b>2.1200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.2600e-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	0.4628					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	1.0000e-005	6.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1400e-003	1.1400e-003	0.0000	0.0000	1.2000e-003
<b>Total</b>	<b>0.4628</b>	<b>1.0000e-005</b>	<b>6.3000e-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>1.1400e-003</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	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			
General Light Industry	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			
General Light Industry	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

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	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			
General Light Industry	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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**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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Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**Morena Pipeline-Open Trench**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	118.50	1000sqft	2.72	118,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

## Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Stationary Sources - User Defined - No stationary sources.



Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.  
 Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	59250	0
tblAreaCoating	Area_Nonresidential_Interior	177750	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorV alue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorV alue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	220.00	135.00

## Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

tblConstructionPhase	NumDays	10.00	134.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	146.94	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	50.00
tblTripsAndVMT	VendorTripNumber	19.00	2.00
tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	50.00	64.00

## Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	27,403,125.00	0.00

**2.0 Emissions Summary**

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Morena Pipeline-Open Trench - San Diego County APCD Air District, 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	2.5370	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0259	0.0259	7.0000e-005		0.0277
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>2.5370</b>	<b>1.1000e-004</b>	<b>0.0122</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>0.0259</b>	<b>0.0259</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0277</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	2.5364	6.0000e-005	7.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0140	0.0140	3.0000e-005		0.0147
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>2.5364</b>	<b>6.0000e-005</b>	<b>7.0400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0140</b>	<b>0.0140</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0147</b>

## Morena Pipeline-Open Trench - San Diego County APCD Air District, 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	0.03	45.45	42.06	0.00	0.00	50.00	50.00	0.00	50.00	50.00	0.00	46.09	46.09	57.14	0.00	46.85

### 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	Trenching	Trenching	3/20/2020	9/24/2020	5	135	
2	Building Construction	Building Construction	9/25/2020	4/1/2021	5	135	Pipeline installation and backfill.
3	Paving	Paving	4/1/2021	10/5/2021	5	134	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trenching	Excavators	2	8.00	158	0.38
Trenching	Rubber Tired Dozers	2	8.00	247	0.40
Trenching	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Trenching	Trenchers	2	8.00	78	0.50
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Trenching	10	26.00	0.00	50.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	64.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.2 Trenching - 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					
Off-Road	4.3264	43.5035	29.1902	0.0466		2.4447	2.4447		2.2491	2.2491		4,511.6201	4,511.6201	1.4592		4,548.0988
<b>Total</b>	<b>4.3264</b>	<b>43.5035</b>	<b>29.1902</b>	<b>0.0466</b>		<b>2.4447</b>	<b>2.4447</b>		<b>2.2491</b>	<b>2.2491</b>		<b>4,511.6201</b>	<b>4,511.6201</b>	<b>1.4592</b>		<b>4,548.0988</b>

**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	2.9300e-003	0.1033	0.0235	2.9000e-004	6.4700e-003	3.3000e-004	6.8000e-003	1.7700e-003	3.2000e-004	2.0900e-003		31.7158	31.7158	2.7900e-003		31.7857
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	0.1322	0.0955	1.0843	3.3900e-003	0.3321	2.2400e-003	0.3343	0.0881	2.0700e-003	0.0901		337.5104	337.5104	9.8200e-003		337.7559
<b>Total</b>	<b>0.1352</b>	<b>0.1988</b>	<b>1.1077</b>	<b>3.6800e-003</b>	<b>0.3386</b>	<b>2.5700e-003</b>	<b>0.3411</b>	<b>0.0898</b>	<b>2.3900e-003</b>	<b>0.0922</b>		<b>369.2262</b>	<b>369.2262</b>	<b>0.0126</b>		<b>369.5415</b>



Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.2 Trenching - 2020**

**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	1.1413	23.7057	31.3555	0.0466		1.2942	1.2942		1.2942	1.2942	0.0000	4,511.6201	4,511.6201	1.4592		4,548.0988
<b>Total</b>	<b>1.1413</b>	<b>23.7057</b>	<b>31.3555</b>	<b>0.0466</b>		<b>1.2942</b>	<b>1.2942</b>		<b>1.2942</b>	<b>1.2942</b>	<b>0.0000</b>	<b>4,511.6201</b>	<b>4,511.6201</b>	<b>1.4592</b>		<b>4,548.0988</b>

**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	2.9300e-003	0.1033	0.0235	2.9000e-004	6.4700e-003	3.3000e-004	6.8000e-003	1.7700e-003	3.2000e-004	2.0900e-003		31.7158	31.7158	2.7900e-003		31.7857
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	0.1322	0.0955	1.0843	3.3900e-003	0.3321	2.2400e-003	0.3343	0.0881	2.0700e-003	0.0901		337.5104	337.5104	9.8200e-003		337.7559
<b>Total</b>	<b>0.1352</b>	<b>0.1988</b>	<b>1.1077</b>	<b>3.6800e-003</b>	<b>0.3386</b>	<b>2.5700e-003</b>	<b>0.3411</b>	<b>0.0898</b>	<b>2.3900e-003</b>	<b>0.0922</b>		<b>369.2262</b>	<b>369.2262</b>	<b>0.0126</b>		<b>369.5415</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.3 Building Construction - 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					
Off-Road	1.6138	17.5884	11.1507	0.0208		0.9041	0.9041		0.8318	0.8318		2,015.1779	2,015.1779	0.6518		2,031.4717
<b>Total</b>	<b>1.6138</b>	<b>17.5884</b>	<b>11.1507</b>	<b>0.0208</b>		<b>0.9041</b>	<b>0.9041</b>		<b>0.8318</b>	<b>0.8318</b>		<b>2,015.1779</b>	<b>2,015.1779</b>	<b>0.6518</b>		<b>2,031.4717</b>

**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	7.0300e-003	0.2158	0.0547	5.1000e-004	0.0123	1.0000e-003	0.0133	3.5300e-003	9.6000e-004	4.4900e-003		54.3434	54.3434	4.1300e-003		54.4466
Worker	0.3255	0.2351	2.6690	8.3400e-003	0.8175	5.5200e-003	0.8230	0.2168	5.0800e-003	0.2219		830.7949	830.7949	0.0242		831.3991
<b>Total</b>	<b>0.3325</b>	<b>0.4509</b>	<b>2.7237</b>	<b>8.8500e-003</b>	<b>0.8297</b>	<b>6.5200e-003</b>	<b>0.8362</b>	<b>0.2203</b>	<b>6.0400e-003</b>	<b>0.2264</b>		<b>885.1383</b>	<b>885.1383</b>	<b>0.0283</b>		<b>885.8457</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.3 Building Construction - 2020**

**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	0.5108	10.6713	13.1511	0.0208		0.5716	0.5716		0.5716	0.5716	0.0000	2,015.1779	2,015.1779	0.6518		2,031.4717
<b>Total</b>	<b>0.5108</b>	<b>10.6713</b>	<b>13.1511</b>	<b>0.0208</b>		<b>0.5716</b>	<b>0.5716</b>		<b>0.5716</b>	<b>0.5716</b>	<b>0.0000</b>	<b>2,015.1779</b>	<b>2,015.1779</b>	<b>0.6518</b>		<b>2,031.4717</b>

**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	7.0300e-003	0.2158	0.0547	5.1000e-004	0.0123	1.0000e-003	0.0133	3.5300e-003	9.6000e-004	4.4900e-003		54.3434	54.3434	4.1300e-003		54.4466
Worker	0.3255	0.2351	2.6690	8.3400e-003	0.8175	5.5200e-003	0.8230	0.2168	5.0800e-003	0.2219		830.7949	830.7949	0.0242		831.3991
<b>Total</b>	<b>0.3325</b>	<b>0.4509</b>	<b>2.7237</b>	<b>8.8500e-003</b>	<b>0.8297</b>	<b>6.5200e-003</b>	<b>0.8362</b>	<b>0.2203</b>	<b>6.0400e-003</b>	<b>0.2264</b>		<b>885.1383</b>	<b>885.1383</b>	<b>0.0283</b>		<b>885.8457</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.3 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4590	15.8485	10.8219	0.0208		0.7847	0.7847		0.7219	0.7219		2,015.3393	2,015.3393	0.6518		2,031.6344
<b>Total</b>	<b>1.4590</b>	<b>15.8485</b>	<b>10.8219</b>	<b>0.0208</b>		<b>0.7847</b>	<b>0.7847</b>		<b>0.7219</b>	<b>0.7219</b>		<b>2,015.3393</b>	<b>2,015.3393</b>	<b>0.6518</b>		<b>2,031.6344</b>

**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	5.7200e-003	0.1956	0.0494	5.0000e-004	0.0123	3.9000e-004	0.0126	3.5300e-003	3.7000e-004	3.9000e-003		53.8463	53.8463	3.9600e-003		53.9452
Worker	0.3073	0.2139	2.5009	8.0500e-003	0.8175	5.4300e-003	0.8229	0.2168	5.0000e-003	0.2218		802.8712	802.8712	0.0223		803.4298
<b>Total</b>	<b>0.3131</b>	<b>0.4095</b>	<b>2.5503</b>	<b>8.5500e-003</b>	<b>0.8297</b>	<b>5.8200e-003</b>	<b>0.8356</b>	<b>0.2203</b>	<b>5.3700e-003</b>	<b>0.2257</b>		<b>856.7175</b>	<b>856.7175</b>	<b>0.0263</b>		<b>857.3750</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.3 Building Construction - 2021**

**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	0.5108	10.6713	13.1511	0.0208		0.5716	0.5716		0.5716	0.5716	0.0000	2,015.3393	2,015.3393	0.6518		2,031.6344
<b>Total</b>	<b>0.5108</b>	<b>10.6713</b>	<b>13.1511</b>	<b>0.0208</b>		<b>0.5716</b>	<b>0.5716</b>		<b>0.5716</b>	<b>0.5716</b>	<b>0.0000</b>	<b>2,015.3393</b>	<b>2,015.3393</b>	<b>0.6518</b>		<b>2,031.6344</b>

**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	5.7200e-003	0.1956	0.0494	5.0000e-004	0.0123	3.9000e-004	0.0126	3.5300e-003	3.7000e-004	3.9000e-003		53.8463	53.8463	3.9600e-003		53.9452
Worker	0.3073	0.2139	2.5009	8.0500e-003	0.8175	5.4300e-003	0.8229	0.2168	5.0000e-003	0.2218		802.8712	802.8712	0.0223		803.4298
<b>Total</b>	<b>0.3131</b>	<b>0.4095</b>	<b>2.5503</b>	<b>8.5500e-003</b>	<b>0.8297</b>	<b>5.8200e-003</b>	<b>0.8356</b>	<b>0.2203</b>	<b>5.3700e-003</b>	<b>0.2257</b>		<b>856.7175</b>	<b>856.7175</b>	<b>0.0263</b>		<b>857.3750</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.4 Paving - 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2556</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

**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	0.0768	0.0535	0.6252	2.0100e-003	0.2044	1.3600e-003	0.2057	0.0542	1.2500e-003	0.0555		200.7178	200.7178	5.5900e-003		200.8575
<b>Total</b>	<b>0.0768</b>	<b>0.0535</b>	<b>0.6252</b>	<b>2.0100e-003</b>	<b>0.2044</b>	<b>1.3600e-003</b>	<b>0.2057</b>	<b>0.0542</b>	<b>1.2500e-003</b>	<b>0.0555</b>		<b>200.7178</b>	<b>200.7178</b>	<b>5.5900e-003</b>		<b>200.8575</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.4 Paving - 2021**

**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	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5609</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.6093</b>	<b>0.6093</b>		<b>0.6093</b>	<b>0.6093</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

**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	0.0768	0.0535	0.6252	2.0100e-003	0.2044	1.3600e-003	0.2057	0.0542	1.2500e-003	0.0555		200.7178	200.7178	5.5900e-003		200.8575
<b>Total</b>	<b>0.0768</b>	<b>0.0535</b>	<b>0.6252</b>	<b>2.0100e-003</b>	<b>0.2044</b>	<b>1.3600e-003</b>	<b>0.2057</b>	<b>0.0542</b>	<b>1.2500e-003</b>	<b>0.0555</b>		<b>200.7178</b>	<b>200.7178</b>	<b>5.5900e-003</b>		<b>200.8575</b>

**4.0 Operational Detail - Mobile**

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193



Morena Pipeline-Open Trench - San Diego County APCD Air District, 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

Morena Pipeline-Open Trench - San Diego County APCD Air District, 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					
General Light Industry	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					
General Light Industry	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**

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	2.5364	6.0000e-005	7.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0140	0.0140	3.0000e-005		0.0147
Unmitigated	2.5370	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0259	0.0259	7.0000e-005		0.0277

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.5359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0259	0.0259	7.0000e-005		0.0277
<b>Total</b>	<b>2.5370</b>	<b>1.1000e-004</b>	<b>0.0122</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>0.0259</b>	<b>0.0259</b>	<b>7.0000e-005</b>		<b>0.0277</b>

**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	2.5359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8000e-004	6.0000e-005	7.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0140	0.0140	3.0000e-005		0.0147
<b>Total</b>	<b>2.5364</b>	<b>6.0000e-005</b>	<b>7.0400e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0140</b>	<b>0.0140</b>	<b>3.0000e-005</b>		<b>0.0147</b>

**7.0 Water Detail**

## Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

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**7.1 Mitigation Measures Water****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****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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**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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Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**Morena Pipeline-Open Trench**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	118.50	1000sqft	2.72	118,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Stationary Sources - User Defined - No stationary sources.

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.  
 Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	59250	0
tblAreaCoating	Area_Nonresidential_Interior	177750	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorV alue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorV alue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	220.00	135.00



Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

tblConstructionPhase	NumDays	10.00	134.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	146.94	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	50.00
tblTripsAndVMT	VendorTripNumber	19.00	2.00
tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	50.00	64.00

## Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	27,403,125.00	0.00

**2.0 Emissions Summary**

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Morena Pipeline-Open Trench - San Diego County APCD Air District, 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	2.5370	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0259	0.0259	7.0000e-005		0.0277
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>2.5370</b>	<b>1.1000e-004</b>	<b>0.0122</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>0.0259</b>	<b>0.0259</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0277</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	2.5364	6.0000e-005	7.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0140	0.0140	3.0000e-005		0.0147
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>2.5364</b>	<b>6.0000e-005</b>	<b>7.0400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0140</b>	<b>0.0140</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0147</b>

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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	0.03	45.45	42.06	0.00	0.00	50.00	50.00	0.00	50.00	50.00	0.00	46.09	46.09	57.14	0.00	46.85

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Trenching	Trenching	3/20/2020	9/24/2020	5	135	
2	Building Construction	Building Construction	9/25/2020	4/1/2021	5	135	Pipeline installation and backfill.
3	Paving	Paving	4/1/2021	10/5/2021	5	134	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trenching	Excavators	2	8.00	158	0.38
Trenching	Rubber Tired Dozers	2	8.00	247	0.40
Trenching	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Trenching	Trenchers	2	8.00	78	0.50
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Trenching	10	26.00	0.00	50.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	64.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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**3.2 Trenching - 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					
Off-Road	4.3264	43.5035	29.1902	0.0466		2.4447	2.4447		2.2491	2.2491		4,511.6201	4,511.6201	1.4592		4,548.0988
<b>Total</b>	<b>4.3264</b>	<b>43.5035</b>	<b>29.1902</b>	<b>0.0466</b>		<b>2.4447</b>	<b>2.4447</b>		<b>2.2491</b>	<b>2.2491</b>		<b>4,511.6201</b>	<b>4,511.6201</b>	<b>1.4592</b>		<b>4,548.0988</b>

**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	3.0100e-003	0.1043	0.0250	2.8000e-004	6.4700e-003	3.4000e-004	6.8100e-003	1.7700e-003	3.2000e-004	2.1000e-003		31.1717	31.1717	2.8900e-003		31.2439
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	0.1533	0.1072	1.0013	3.1800e-003	0.3321	2.2400e-003	0.3343	0.0881	2.0700e-003	0.0901		316.7034	316.7034	9.2100e-003		316.9335
<b>Total</b>	<b>0.1564</b>	<b>0.2115</b>	<b>1.0263</b>	<b>3.4600e-003</b>	<b>0.3386</b>	<b>2.5800e-003</b>	<b>0.3412</b>	<b>0.0898</b>	<b>2.3900e-003</b>	<b>0.0922</b>		<b>347.8751</b>	<b>347.8751</b>	<b>0.0121</b>		<b>348.1775</b>

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**3.2 Trenching - 2020**

**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	1.1413	23.7057	31.3555	0.0466		1.2942	1.2942		1.2942	1.2942	0.0000	4,511.6201	4,511.6201	1.4592		4,548.0988
<b>Total</b>	<b>1.1413</b>	<b>23.7057</b>	<b>31.3555</b>	<b>0.0466</b>		<b>1.2942</b>	<b>1.2942</b>		<b>1.2942</b>	<b>1.2942</b>	<b>0.0000</b>	<b>4,511.6201</b>	<b>4,511.6201</b>	<b>1.4592</b>		<b>4,548.0988</b>

**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	3.0100e-003	0.1043	0.0250	2.8000e-004	6.4700e-003	3.4000e-004	6.8100e-003	1.7700e-003	3.2000e-004	2.1000e-003		31.1717	31.1717	2.8900e-003		31.2439
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	0.1533	0.1072	1.0013	3.1800e-003	0.3321	2.2400e-003	0.3343	0.0881	2.0700e-003	0.0901		316.7034	316.7034	9.2100e-003		316.9335
<b>Total</b>	<b>0.1564</b>	<b>0.2115</b>	<b>1.0263</b>	<b>3.4600e-003</b>	<b>0.3386</b>	<b>2.5800e-003</b>	<b>0.3412</b>	<b>0.0898</b>	<b>2.3900e-003</b>	<b>0.0922</b>		<b>347.8751</b>	<b>347.8751</b>	<b>0.0121</b>		<b>348.1775</b>



Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.3 Building Construction - 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					
Off-Road	1.6138	17.5884	11.1507	0.0208		0.9041	0.9041		0.8318	0.8318		2,015.1779	2,015.1779	0.6518		2,031.4717
<b>Total</b>	<b>1.6138</b>	<b>17.5884</b>	<b>11.1507</b>	<b>0.0208</b>		<b>0.9041</b>	<b>0.9041</b>		<b>0.8318</b>	<b>0.8318</b>		<b>2,015.1779</b>	<b>2,015.1779</b>	<b>0.6518</b>		<b>2,031.4717</b>

**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	7.3800e-003	0.2153	0.0610	4.9000e-004	0.0123	1.0300e-003	0.0133	3.5300e-003	9.8000e-004	4.5100e-003		52.8279	52.8279	4.4000e-003		52.9379
Worker	0.3775	0.2639	2.4648	7.8200e-003	0.8175	5.5200e-003	0.8230	0.2168	5.0800e-003	0.2219		779.5776	779.5776	0.0227		780.1441
<b>Total</b>	<b>0.3848</b>	<b>0.4791</b>	<b>2.5258</b>	<b>8.3100e-003</b>	<b>0.8297</b>	<b>6.5500e-003</b>	<b>0.8363</b>	<b>0.2203</b>	<b>6.0600e-003</b>	<b>0.2264</b>		<b>832.4054</b>	<b>832.4054</b>	<b>0.0271</b>		<b>833.0819</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.3 Building Construction - 2020**

**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	0.5108	10.6713	13.1511	0.0208		0.5716	0.5716		0.5716	0.5716	0.0000	2,015.1779	2,015.1779	0.6518		2,031.4717
<b>Total</b>	<b>0.5108</b>	<b>10.6713</b>	<b>13.1511</b>	<b>0.0208</b>		<b>0.5716</b>	<b>0.5716</b>		<b>0.5716</b>	<b>0.5716</b>	<b>0.0000</b>	<b>2,015.1779</b>	<b>2,015.1779</b>	<b>0.6518</b>		<b>2,031.4717</b>

**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	7.3800e-003	0.2153	0.0610	4.9000e-004	0.0123	1.0300e-003	0.0133	3.5300e-003	9.8000e-004	4.5100e-003		52.8279	52.8279	4.4000e-003		52.9379
Worker	0.3775	0.2639	2.4648	7.8200e-003	0.8175	5.5200e-003	0.8230	0.2168	5.0800e-003	0.2219		779.5776	779.5776	0.0227		780.1441
<b>Total</b>	<b>0.3848</b>	<b>0.4791</b>	<b>2.5258</b>	<b>8.3100e-003</b>	<b>0.8297</b>	<b>6.5500e-003</b>	<b>0.8363</b>	<b>0.2203</b>	<b>6.0600e-003</b>	<b>0.2264</b>		<b>832.4054</b>	<b>832.4054</b>	<b>0.0271</b>		<b>833.0819</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.3 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4590	15.8485	10.8219	0.0208		0.7847	0.7847		0.7219	0.7219		2,015.3393	2,015.3393	0.6518		2,031.6344
<b>Total</b>	<b>1.4590</b>	<b>15.8485</b>	<b>10.8219</b>	<b>0.0208</b>		<b>0.7847</b>	<b>0.7847</b>		<b>0.7219</b>	<b>0.7219</b>		<b>2,015.3393</b>	<b>2,015.3393</b>	<b>0.6518</b>		<b>2,031.6344</b>

**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	6.0400e-003	0.1948	0.0553	4.9000e-004	0.0123	4.1000e-004	0.0127	3.5300e-003	3.9000e-004	3.9200e-003		52.3397	52.3397	4.2200e-003		52.4451
Worker	0.3569	0.2400	2.3036	7.5600e-003	0.8175	5.4300e-003	0.8229	0.2168	5.0000e-003	0.2218		753.3624	753.3624	0.0209		753.8854
<b>Total</b>	<b>0.3630</b>	<b>0.4348</b>	<b>2.3589</b>	<b>8.0500e-003</b>	<b>0.8297</b>	<b>5.8400e-003</b>	<b>0.8356</b>	<b>0.2203</b>	<b>5.3900e-003</b>	<b>0.2257</b>		<b>805.7022</b>	<b>805.7022</b>	<b>0.0251</b>		<b>806.3306</b>

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**3.3 Building Construction - 2021**

**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	0.5108	10.6713	13.1511	0.0208		0.5716	0.5716		0.5716	0.5716	0.0000	2,015.3393	2,015.3393	0.6518		2,031.6344
<b>Total</b>	<b>0.5108</b>	<b>10.6713</b>	<b>13.1511</b>	<b>0.0208</b>		<b>0.5716</b>	<b>0.5716</b>		<b>0.5716</b>	<b>0.5716</b>	<b>0.0000</b>	<b>2,015.3393</b>	<b>2,015.3393</b>	<b>0.6518</b>		<b>2,031.6344</b>

**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	6.0400e-003	0.1948	0.0553	4.9000e-004	0.0123	4.1000e-004	0.0127	3.5300e-003	3.9000e-004	3.9200e-003		52.3397	52.3397	4.2200e-003		52.4451
Worker	0.3569	0.2400	2.3036	7.5600e-003	0.8175	5.4300e-003	0.8229	0.2168	5.0000e-003	0.2218		753.3624	753.3624	0.0209		753.8854
<b>Total</b>	<b>0.3630</b>	<b>0.4348</b>	<b>2.3589</b>	<b>8.0500e-003</b>	<b>0.8297</b>	<b>5.8400e-003</b>	<b>0.8356</b>	<b>0.2203</b>	<b>5.3900e-003</b>	<b>0.2257</b>		<b>805.7022</b>	<b>805.7022</b>	<b>0.0251</b>		<b>806.3306</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.4 Paving - 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2556</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

**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	0.0892	0.0600	0.5759	1.8900e-003	0.2044	1.3600e-003	0.2057	0.0542	1.2500e-003	0.0555		188.3406	188.3406	5.2300e-003		188.4714
<b>Total</b>	<b>0.0892</b>	<b>0.0600</b>	<b>0.5759</b>	<b>1.8900e-003</b>	<b>0.2044</b>	<b>1.3600e-003</b>	<b>0.2057</b>	<b>0.0542</b>	<b>1.2500e-003</b>	<b>0.0555</b>		<b>188.3406</b>	<b>188.3406</b>	<b>5.2300e-003</b>		<b>188.4714</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.4 Paving - 2021**

**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	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5609</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.6093</b>	<b>0.6093</b>		<b>0.6093</b>	<b>0.6093</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

**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	0.0892	0.0600	0.5759	1.8900e-003	0.2044	1.3600e-003	0.2057	0.0542	1.2500e-003	0.0555		188.3406	188.3406	5.2300e-003		188.4714
<b>Total</b>	<b>0.0892</b>	<b>0.0600</b>	<b>0.5759</b>	<b>1.8900e-003</b>	<b>0.2044</b>	<b>1.3600e-003</b>	<b>0.2057</b>	<b>0.0542</b>	<b>1.2500e-003</b>	<b>0.0555</b>		<b>188.3406</b>	<b>188.3406</b>	<b>5.2300e-003</b>		<b>188.4714</b>

**4.0 Operational Detail - Mobile**

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

Morena Pipeline-Open Trench - San Diego County APCD Air District, 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



Morena Pipeline-Open Trench - San Diego County APCD Air District, 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					
General Light Industry	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					
General Light Industry	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**

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	2.5364	6.0000e-005	7.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0140	0.0140	3.0000e-005		0.0147
Unmitigated	2.5370	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0259	0.0259	7.0000e-005		0.0277

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**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	2.5359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0259	0.0259	7.0000e-005		0.0277
<b>Total</b>	<b>2.5370</b>	<b>1.1000e-004</b>	<b>0.0122</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>0.0259</b>	<b>0.0259</b>	<b>7.0000e-005</b>		<b>0.0277</b>

**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	2.5359					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8000e-004	6.0000e-005	7.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0140	0.0140	3.0000e-005		0.0147
<b>Total</b>	<b>2.5364</b>	<b>6.0000e-005</b>	<b>7.0400e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0140</b>	<b>0.0140</b>	<b>3.0000e-005</b>		<b>0.0147</b>

**7.0 Water Detail**

## Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

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**7.1 Mitigation Measures Water****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****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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**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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Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Annual

**Landfill Gas Pipeline-Trenchless**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	3.45	1000sqft	0.08	3,452.97	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

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Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

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Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1726	0
tblAreaCoating	Area_Nonresidential_Interior	5179	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1.00	20.00
tblConstructionPhase	NumDays	1.00	120.00
tblConstructionPhase	NumDays	1.00	120.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00

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tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	21.00	0.00
tblLandUse	BuildingSpaceSquareFeet	3,450.00	3,452.97
tblLandUse	LandUseSquareFeet	3,450.00	3,452.97
tblProjectCharacteristics	OperationalYear	2018	2021
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	4.28	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	26.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	797,812.50	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)
		Highest		

**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	0.0135	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	0.0000	7.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0135</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-005</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	0.0125	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0125</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</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	7.49	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00	0.00	0.00	57.14

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation at Portal Sites	Site Preparation	3/2/2020	3/27/2020	5	20	
2	Portal Excavation	Site Preparation	3/30/2020	9/11/2020	5	120	
3	Site Restoration	Site Preparation	9/14/2020	2/26/2021	5	120	
4	Tunnel Excavation	Trenching	3/1/2021	10/5/2021	5	157	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation at Portal Sites	Graders	1	8.00	187	0.41
Site Preparation at Portal Sites	Scrapers	1	8.00	367	0.48
Site Preparation at Portal Sites	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Portal Excavation	Excavators	1	8.00	158	0.38
Portal Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Portal Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Trenchers	1	8.00	78	0.50
Site Restoration	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tunnel Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Tunnel Excavation	Excavators	1	8.00	158	0.38
Tunnel Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Tunnel Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tunnel Excavation	Trenchers	1	8.00	78	0.50

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation at Portal Sites	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Portal Excavation	5	16.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Restoration	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Tunnel Excavation	5	26.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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**3.2 Site Preparation at Portal Sites - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0168	0.2018	0.1155	2.5000e-004		7.9400e-003	7.9400e-003		7.3000e-003	7.3000e-003	0.0000	21.8677	21.8677	7.0700e-003	0.0000	22.0445
<b>Total</b>	<b>0.0168</b>	<b>0.2018</b>	<b>0.1155</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>7.9400e-003</b>	<b>7.9400e-003</b>	<b>0.0000</b>	<b>7.3000e-003</b>	<b>7.3000e-003</b>	<b>0.0000</b>	<b>21.8677</b>	<b>21.8677</b>	<b>7.0700e-003</b>	<b>0.0000</b>	<b>22.0445</b>

**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	4.1000e-004	3.2000e-004	3.1000e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0000e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8929	0.8929	3.0000e-005	0.0000	0.8936
<b>Total</b>	<b>4.1000e-004</b>	<b>3.2000e-004</b>	<b>3.1000e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8929</b>	<b>0.8929</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8936</b>

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**3.2 Site Preparation at Portal Sites - 2020**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7800e-003	0.1199	0.1395	2.5000e-004		5.1100e-003	5.1100e-003		5.1400e-003	5.1400e-003	0.0000	21.8677	21.8677	7.0700e-003	0.0000	22.0445
<b>Total</b>	<b>5.7800e-003</b>	<b>0.1199</b>	<b>0.1395</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.1100e-003</b>	<b>5.1100e-003</b>	<b>0.0000</b>	<b>5.1400e-003</b>	<b>5.1400e-003</b>	<b>0.0000</b>	<b>21.8677</b>	<b>21.8677</b>	<b>7.0700e-003</b>	<b>0.0000</b>	<b>22.0445</b>

**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	4.1000e-004	3.2000e-004	3.1000e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0000e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8929	0.8929	3.0000e-005	0.0000	0.8936
<b>Total</b>	<b>4.1000e-004</b>	<b>3.2000e-004</b>	<b>3.1000e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8929</b>	<b>0.8929</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8936</b>

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**3.3 Portal Excavation - 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					0.2590	0.0000	0.2590	0.1423	0.0000	0.1423	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1504	1.4067	1.0001	1.6300e-003		0.0798	0.0798		0.0746	0.0746	0.0000	142.5861	142.5861	0.0371	0.0000	143.5134
<b>Total</b>	<b>0.1504</b>	<b>1.4067</b>	<b>1.0001</b>	<b>1.6300e-003</b>	<b>0.2590</b>	<b>0.0798</b>	<b>0.3388</b>	<b>0.1423</b>	<b>0.0746</b>	<b>0.2169</b>	<b>0.0000</b>	<b>142.5861</b>	<b>142.5861</b>	<b>0.0371</b>	<b>0.0000</b>	<b>143.5134</b>

**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	4.9700e-003	3.8900e-003	0.0372	1.2000e-004	0.0120	8.0000e-005	0.0121	3.1800e-003	8.0000e-005	3.2600e-003	0.0000	10.7151	10.7151	3.1000e-004	0.0000	10.7229
<b>Total</b>	<b>4.9700e-003</b>	<b>3.8900e-003</b>	<b>0.0372</b>	<b>1.2000e-004</b>	<b>0.0120</b>	<b>8.0000e-005</b>	<b>0.0121</b>	<b>3.1800e-003</b>	<b>8.0000e-005</b>	<b>3.2600e-003</b>	<b>0.0000</b>	<b>10.7151</b>	<b>10.7151</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>10.7229</b>



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**3.3 Portal Excavation - 2020**

**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					0.1165	0.0000	0.1165	0.0641	0.0000	0.0641	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0361	0.7938	1.0607	1.6300e-003		0.0448	0.0448		0.0450	0.0450	0.0000	142.5860	142.5860	0.0371	0.0000	143.5132
<b>Total</b>	<b>0.0361</b>	<b>0.7938</b>	<b>1.0607</b>	<b>1.6300e-003</b>	<b>0.1165</b>	<b>0.0448</b>	<b>0.1614</b>	<b>0.0641</b>	<b>0.0450</b>	<b>0.1090</b>	<b>0.0000</b>	<b>142.5860</b>	<b>142.5860</b>	<b>0.0371</b>	<b>0.0000</b>	<b>143.5132</b>

**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	4.9700e-003	3.8900e-003	0.0372	1.2000e-004	0.0120	8.0000e-005	0.0121	3.1800e-003	8.0000e-005	3.2600e-003	0.0000	10.7151	10.7151	3.1000e-004	0.0000	10.7229
<b>Total</b>	<b>4.9700e-003</b>	<b>3.8900e-003</b>	<b>0.0372</b>	<b>1.2000e-004</b>	<b>0.0120</b>	<b>8.0000e-005</b>	<b>0.0121</b>	<b>3.1800e-003</b>	<b>8.0000e-005</b>	<b>3.2600e-003</b>	<b>0.0000</b>	<b>10.7151</b>	<b>10.7151</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>10.7229</b>

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**3.4 Site Restoration - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.2800e-003	0.0832	0.0901	1.2000e-004		5.2600e-003	5.2600e-003		4.8400e-003	4.8400e-003	0.0000	10.7777	10.7777	3.4900e-003	0.0000	10.8648
<b>Total</b>	<b>8.2800e-003</b>	<b>0.0832</b>	<b>0.0901</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>5.2600e-003</b>	<b>5.2600e-003</b>	<b>0.0000</b>	<b>4.8400e-003</b>	<b>4.8400e-003</b>	<b>0.0000</b>	<b>10.7777</b>	<b>10.7777</b>	<b>3.4900e-003</b>	<b>0.0000</b>	<b>10.8648</b>

**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	6.4000e-004	6.1300e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7635	1.7635	5.0000e-005	0.0000	1.7648
<b>Total</b>	<b>8.2000e-004</b>	<b>6.4000e-004</b>	<b>6.1300e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>1.0000e-005</b>	<b>1.9800e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7635</b>	<b>1.7635</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.7648</b>

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**3.4 Site Restoration - 2020**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6800e-003	0.0649	0.0931	1.2000e-004		4.6900e-003	4.6900e-003		4.7900e-003	4.7900e-003	0.0000	10.7777	10.7777	3.4900e-003	0.0000	10.8648
<b>Total</b>	<b>1.6800e-003</b>	<b>0.0649</b>	<b>0.0931</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.6900e-003</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>4.7900e-003</b>	<b>4.7900e-003</b>	<b>0.0000</b>	<b>10.7777</b>	<b>10.7777</b>	<b>3.4900e-003</b>	<b>0.0000</b>	<b>10.8648</b>

**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	6.4000e-004	6.1300e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7635	1.7635	5.0000e-005	0.0000	1.7648
<b>Total</b>	<b>8.2000e-004</b>	<b>6.4000e-004</b>	<b>6.1300e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>1.0000e-005</b>	<b>1.9800e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7635</b>	<b>1.7635</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.7648</b>

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**3.4 Site Restoration - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8400e-003	0.0389	0.0463	6.0000e-005		2.2900e-003	2.2900e-003		2.1100e-003	2.1100e-003	0.0000	5.5959	5.5959	1.8100e-003	0.0000	5.6412
<b>Total</b>	<b>3.8400e-003</b>	<b>0.0389</b>	<b>0.0463</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.2900e-003</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>2.1100e-003</b>	<b>2.1100e-003</b>	<b>0.0000</b>	<b>5.5959</b>	<b>5.5959</b>	<b>1.8100e-003</b>	<b>0.0000</b>	<b>5.6412</b>

**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	4.0000e-004	3.0000e-004	2.9700e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.8845	0.8845	2.0000e-005	0.0000	0.8851
<b>Total</b>	<b>4.0000e-004</b>	<b>3.0000e-004</b>	<b>2.9700e-003</b>	<b>1.0000e-005</b>	<b>1.0200e-003</b>	<b>1.0000e-005</b>	<b>1.0300e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.8845</b>	<b>0.8845</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8851</b>

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**3.4 Site Restoration - 2021**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9000e-004	0.0347	0.0484	6.0000e-005		2.5400e-003	2.5400e-003		2.5900e-003	2.5900e-003	0.0000	5.5959	5.5959	1.8100e-003	0.0000	5.6412
<b>Total</b>	<b>9.9000e-004</b>	<b>0.0347</b>	<b>0.0484</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.5400e-003</b>	<b>2.5400e-003</b>	<b>0.0000</b>	<b>2.5900e-003</b>	<b>2.5900e-003</b>	<b>0.0000</b>	<b>5.5959</b>	<b>5.5959</b>	<b>1.8100e-003</b>	<b>0.0000</b>	<b>5.6412</b>

**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	4.0000e-004	3.0000e-004	2.9700e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.8845	0.8845	2.0000e-005	0.0000	0.8851
<b>Total</b>	<b>4.0000e-004</b>	<b>3.0000e-004</b>	<b>2.9700e-003</b>	<b>1.0000e-005</b>	<b>1.0200e-003</b>	<b>1.0000e-005</b>	<b>1.0300e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.8845</b>	<b>0.8845</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8851</b>

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**3.5 Tunnel Excavation - 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	0.1851	1.7292	1.2965	2.1300e-003		0.0951	0.0951		0.0888	0.0888	0.0000	186.5733	186.5733	0.0483	0.0000	187.7804
<b>Total</b>	<b>0.1851</b>	<b>1.7292</b>	<b>1.2965</b>	<b>2.1300e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0888</b>	<b>0.0888</b>	<b>0.0000</b>	<b>186.5733</b>	<b>186.5733</b>	<b>0.0483</b>	<b>0.0000</b>	<b>187.7804</b>

**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	0.0155	4.1100e-003	4.0000e-005	9.4000e-004	3.0000e-005	9.7000e-004	2.7000e-004	3.0000e-005	3.0000e-004	0.0000	3.7896	3.7896	2.9000e-004	0.0000	3.7968
Worker	9.9900e-003	7.5300e-003	0.0740	2.4000e-004	0.0255	1.7000e-004	0.0256	6.7600e-003	1.6000e-004	6.9200e-003	0.0000	22.0148	22.0148	6.1000e-004	0.0000	22.0301
<b>Total</b>	<b>0.0105</b>	<b>0.0230</b>	<b>0.0781</b>	<b>2.8000e-004</b>	<b>0.0264</b>	<b>2.0000e-004</b>	<b>0.0266</b>	<b>7.0300e-003</b>	<b>1.9000e-004</b>	<b>7.2200e-003</b>	<b>0.0000</b>	<b>25.8044</b>	<b>25.8044</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>25.8269</b>

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**3.5 Tunnel Excavation - 2021**

**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	0.0477	1.0426	1.3881	2.1300e-003		0.0591	0.0591		0.0593	0.0593	0.0000	186.5731	186.5731	0.0483	0.0000	187.7802
<b>Total</b>	<b>0.0477</b>	<b>1.0426</b>	<b>1.3881</b>	<b>2.1300e-003</b>		<b>0.0591</b>	<b>0.0591</b>		<b>0.0593</b>	<b>0.0593</b>	<b>0.0000</b>	<b>186.5731</b>	<b>186.5731</b>	<b>0.0483</b>	<b>0.0000</b>	<b>187.7802</b>

**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	0.0155	4.1100e-003	4.0000e-005	9.4000e-004	3.0000e-005	9.7000e-004	2.7000e-004	3.0000e-005	3.0000e-004	0.0000	3.7896	3.7896	2.9000e-004	0.0000	3.7968
Worker	9.9900e-003	7.5300e-003	0.0740	2.4000e-004	0.0255	1.7000e-004	0.0256	6.7600e-003	1.6000e-004	6.9200e-003	0.0000	22.0148	22.0148	6.1000e-004	0.0000	22.0301
<b>Total</b>	<b>0.0105</b>	<b>0.0230</b>	<b>0.0781</b>	<b>2.8000e-004</b>	<b>0.0264</b>	<b>2.0000e-004</b>	<b>0.0266</b>	<b>7.0300e-003</b>	<b>1.9000e-004</b>	<b>7.2200e-003</b>	<b>0.0000</b>	<b>25.8044</b>	<b>25.8044</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>25.8269</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193







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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			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.0125	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0135	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	0.0000	7.0000e-005

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	0.0000	7.0000e-005
<b>Total</b>	<b>0.0135</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-005</b>

**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	0.0125					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0125</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

**7.0 Water Detail**

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Annual

**7.1 Mitigation Measures Water**

	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			
General Light Industry	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			
General Light Industry	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

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	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			
General Light Industry	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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Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, 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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Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Summer

**Landfill Gas Pipeline-Trenchless**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	3.45	1000sqft	0.08	3,452.97	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Summer

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Summer

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1726	0
tblAreaCoating	Area_Nonresidential_Interior	5179	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1.00	20.00
tblConstructionPhase	NumDays	1.00	120.00
tblConstructionPhase	NumDays	1.00	120.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00

## Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Summer

tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	21.00	0.00
tblLandUse	BuildingSpaceSquareFeet	3,450.00	3,452.97
tblLandUse	LandUseSquareFeet	3,450.00	3,452.97
tblProjectCharacteristics	OperationalYear	2018	2021
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	4.28	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	26.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	797,812.50	0.00

## 2.0 Emissions Summary

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Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, 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	0.0739	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		7.6000e-004	7.6000e-004	0.0000		8.1000e-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
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>0.0739</b>	<b>0.0000</b>	<b>3.5000e-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>7.6000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.1000e-004</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	0.0684	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.3000e-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
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>0.0684</b>	<b>0.0000</b>	<b>2.0000e-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>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.3000e-004</b>

## Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, 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	7.51	0.00	42.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.05	46.05	0.00	0.00	46.91

### 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	Site Preparation at Portal Sites	Site Preparation	3/2/2020	3/27/2020	5	20	
2	Portal Excavation	Site Preparation	3/30/2020	9/11/2020	5	120	
3	Site Restoration	Site Preparation	9/14/2020	2/26/2021	5	120	
4	Tunnel Excavation	Trenching	3/1/2021	10/5/2021	5	157	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment



Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation at Portal Sites	Graders	1	8.00	187	0.41
Site Preparation at Portal Sites	Scrapers	1	8.00	367	0.48
Site Preparation at Portal Sites	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Portal Excavation	Excavators	1	8.00	158	0.38
Portal Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Portal Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Trenchers	1	8.00	78	0.50
Site Restoration	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tunnel Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Tunnel Excavation	Excavators	1	8.00	158	0.38
Tunnel Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Tunnel Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tunnel Excavation	Trenchers	1	8.00	78	0.50

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation at Portal Sites	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Portal Excavation	5	16.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Restoration	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Tunnel Excavation	5	26.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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**3.2 Site Preparation at Portal Sites - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.6782	20.1828	11.5528	0.0249		0.7937	0.7937		0.7302	0.7302		2,410.502 3	2,410.502 3	0.7796		2,429.992 4
<b>Total</b>	<b>1.6782</b>	<b>20.1828</b>	<b>11.5528</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.7937</b>	<b>0.7937</b>	<b>0.0000</b>	<b>0.7302</b>	<b>0.7302</b>		<b>2,410.502 3</b>	<b>2,410.502 3</b>	<b>0.7796</b>		<b>2,429.992 4</b>

**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	0.0407	0.0294	0.3336	1.0400e-003	0.1022	6.9000e-004	0.1029	0.0271	6.4000e-004	0.0277		103.8494	103.8494	3.0200e-003		103.9249
<b>Total</b>	<b>0.0407</b>	<b>0.0294</b>	<b>0.3336</b>	<b>1.0400e-003</b>	<b>0.1022</b>	<b>6.9000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.4000e-004</b>	<b>0.0277</b>		<b>103.8494</b>	<b>103.8494</b>	<b>3.0200e-003</b>		<b>103.9249</b>

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**3.2 Site Preparation at Portal Sites - 2020**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5777	11.9870	13.9515	0.0249		0.5110	0.5110		0.5137	0.5137	0.0000	2,410.502 3	2,410.502 3	0.7796		2,429.992 4
<b>Total</b>	<b>0.5777</b>	<b>11.9870</b>	<b>13.9515</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.5110</b>	<b>0.5110</b>	<b>0.0000</b>	<b>0.5137</b>	<b>0.5137</b>	<b>0.0000</b>	<b>2,410.502 3</b>	<b>2,410.502 3</b>	<b>0.7796</b>		<b>2,429.992 4</b>

**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	0.0407	0.0294	0.3336	1.0400e-003	0.1022	6.9000e-004	0.1029	0.0271	6.4000e-004	0.0277		103.8494	103.8494	3.0200e-003		103.9249
<b>Total</b>	<b>0.0407</b>	<b>0.0294</b>	<b>0.3336</b>	<b>1.0400e-003</b>	<b>0.1022</b>	<b>6.9000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.4000e-004</b>	<b>0.0277</b>		<b>103.8494</b>	<b>103.8494</b>	<b>3.0200e-003</b>		<b>103.9249</b>

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**3.3 Portal Excavation - 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					4.3158	0.0000	4.3158	2.3723	0.0000	2.3723			0.0000			0.0000
Off-Road	2.5068	23.4458	16.6677	0.0272		1.3301	1.3301		1.2430	1.2430		2,619.5716	2,619.5716	0.6814		2,636.6069
<b>Total</b>	<b>2.5068</b>	<b>23.4458</b>	<b>16.6677</b>	<b>0.0272</b>	<b>4.3158</b>	<b>1.3301</b>	<b>5.6459</b>	<b>2.3723</b>	<b>1.2430</b>	<b>3.6153</b>		<b>2,619.5716</b>	<b>2,619.5716</b>	<b>0.6814</b>		<b>2,636.6069</b>

**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	0.0814	0.0588	0.6673	2.0800e-003	0.2044	1.3800e-003	0.2058	0.0542	1.2700e-003	0.0555		207.6987	207.6987	6.0400e-003		207.8498
<b>Total</b>	<b>0.0814</b>	<b>0.0588</b>	<b>0.6673</b>	<b>2.0800e-003</b>	<b>0.2044</b>	<b>1.3800e-003</b>	<b>0.2058</b>	<b>0.0542</b>	<b>1.2700e-003</b>	<b>0.0555</b>		<b>207.6987</b>	<b>207.6987</b>	<b>6.0400e-003</b>		<b>207.8498</b>

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**3.3 Portal Excavation - 2020**

**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					1.9421	0.0000	1.9421	1.0676	0.0000	1.0676			0.0000			0.0000
Off-Road	0.6016	13.2298	17.6778	0.0272		0.7472	0.7472		0.7498	0.7498	0.0000	2,619.5716	2,619.5716	0.6814		2,636.6069
<b>Total</b>	<b>0.6016</b>	<b>13.2298</b>	<b>17.6778</b>	<b>0.0272</b>	<b>1.9421</b>	<b>0.7472</b>	<b>2.6893</b>	<b>1.0676</b>	<b>0.7498</b>	<b>1.8174</b>	<b>0.0000</b>	<b>2,619.5716</b>	<b>2,619.5716</b>	<b>0.6814</b>		<b>2,636.6069</b>

**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	0.0814	0.0588	0.6673	2.0800e-003	0.2044	1.3800e-003	0.2058	0.0542	1.2700e-003	0.0555		207.6987	207.6987	6.0400e-003		207.8498
<b>Total</b>	<b>0.0814</b>	<b>0.0588</b>	<b>0.6673</b>	<b>2.0800e-003</b>	<b>0.2044</b>	<b>1.3800e-003</b>	<b>0.2058</b>	<b>0.0542</b>	<b>1.2700e-003</b>	<b>0.0555</b>		<b>207.6987</b>	<b>207.6987</b>	<b>6.0400e-003</b>		<b>207.8498</b>

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**3.4 Site Restoration - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2095	2.1052	2.2797	3.1100e-003		0.1331	0.1331		0.1225	0.1225		300.7685	300.7685	0.0973		303.2004
<b>Total</b>	<b>0.2095</b>	<b>2.1052</b>	<b>2.2797</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1331</b>	<b>0.1331</b>	<b>0.0000</b>	<b>0.1225</b>	<b>0.1225</b>		<b>300.7685</b>	<b>300.7685</b>	<b>0.0973</b>		<b>303.2004</b>

**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	0.0203	0.0147	0.1668	5.2000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.2000e-004	0.0139		51.9247	51.9247	1.5100e-003		51.9624
<b>Total</b>	<b>0.0203</b>	<b>0.0147</b>	<b>0.1668</b>	<b>5.2000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>51.9247</b>	<b>51.9247</b>	<b>1.5100e-003</b>		<b>51.9624</b>

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**3.4 Site Restoration - 2020**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0426	1.6417	2.3577	3.1100e-003		0.1186	0.1186		0.1213	0.1213	0.0000	300.7685	300.7685	0.0973		303.2004
<b>Total</b>	<b>0.0426</b>	<b>1.6417</b>	<b>2.3577</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1186</b>	<b>0.1186</b>	<b>0.0000</b>	<b>0.1213</b>	<b>0.1213</b>	<b>0.0000</b>	<b>300.7685</b>	<b>300.7685</b>	<b>0.0973</b>		<b>303.2004</b>

**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	0.0203	0.0147	0.1668	5.2000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.2000e-004	0.0139		51.9247	51.9247	1.5100e-003		51.9624
<b>Total</b>	<b>0.0203</b>	<b>0.0147</b>	<b>0.1668</b>	<b>5.2000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>51.9247</b>	<b>51.9247</b>	<b>1.5100e-003</b>		<b>51.9624</b>

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**3.4 Site Restoration - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028		300.9001	300.9001	0.0973		303.3330
<b>Total</b>	<b>0.1873</b>	<b>1.8958</b>	<b>2.2602</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1118</b>	<b>0.1118</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>		<b>300.9001</b>	<b>300.9001</b>	<b>0.0973</b>		<b>303.3330</b>

**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	0.0192	0.0134	0.1563	5.0000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.1000e-004	0.0139		50.1795	50.1795	1.4000e-003		50.2144
<b>Total</b>	<b>0.0192</b>	<b>0.0134</b>	<b>0.1563</b>	<b>5.0000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.1000e-004</b>	<b>0.0139</b>		<b>50.1795</b>	<b>50.1795</b>	<b>1.4000e-003</b>		<b>50.2144</b>



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**3.4 Site Restoration - 2021**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0481	1.6940	2.3625	3.1100e-003		0.1240	0.1240		0.1262	0.1262	0.0000	300.9001	300.9001	0.0973		303.3330
<b>Total</b>	<b>0.0481</b>	<b>1.6940</b>	<b>2.3625</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1240</b>	<b>0.1240</b>	<b>0.0000</b>	<b>0.1262</b>	<b>0.1262</b>	<b>0.0000</b>	<b>300.9001</b>	<b>300.9001</b>	<b>0.0973</b>		<b>303.3330</b>

**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	0.0192	0.0134	0.1563	5.0000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.1000e-004	0.0139		50.1795	50.1795	1.4000e-003		50.2144
<b>Total</b>	<b>0.0192</b>	<b>0.0134</b>	<b>0.1563</b>	<b>5.0000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.1000e-004</b>	<b>0.0139</b>		<b>50.1795</b>	<b>50.1795</b>	<b>1.4000e-003</b>		<b>50.2144</b>

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**3.5 Tunnel Excavation - 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	2.3575	22.0277	16.5155	0.0272		1.2118	1.2118		1.1315	1.1315		2,619.8969	2,619.8969	0.6780		2,636.8471
<b>Total</b>	<b>2.3575</b>	<b>22.0277</b>	<b>16.5155</b>	<b>0.0272</b>		<b>1.2118</b>	<b>1.2118</b>		<b>1.1315</b>	<b>1.1315</b>		<b>2,619.8969</b>	<b>2,619.8969</b>	<b>0.6780</b>		<b>2,636.8471</b>

**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	5.7200e-003	0.1956	0.0494	5.0000e-004	0.0123	3.9000e-004	0.0126	3.5300e-003	3.7000e-004	3.9000e-003		53.8463	53.8463	3.9600e-003		53.9452
Worker	0.1249	0.0869	1.0160	3.2700e-003	0.3321	2.2100e-003	0.3343	0.0881	2.0300e-003	0.0901		326.1664	326.1664	9.0800e-003		326.3934
<b>Total</b>	<b>0.1306</b>	<b>0.2825</b>	<b>1.0654</b>	<b>3.7700e-003</b>	<b>0.3444</b>	<b>2.6000e-003</b>	<b>0.3470</b>	<b>0.0916</b>	<b>2.4000e-003</b>	<b>0.0940</b>		<b>380.0127</b>	<b>380.0127</b>	<b>0.0130</b>		<b>380.3386</b>

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.5 Tunnel Excavation - 2021**

**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	0.6072	13.2821	17.6827	0.0272		0.7525	0.7525		0.7547	0.7547	0.0000	2,619.8969	2,619.8969	0.6780		2,636.8471
<b>Total</b>	<b>0.6072</b>	<b>13.2821</b>	<b>17.6827</b>	<b>0.0272</b>		<b>0.7525</b>	<b>0.7525</b>		<b>0.7547</b>	<b>0.7547</b>	<b>0.0000</b>	<b>2,619.8969</b>	<b>2,619.8969</b>	<b>0.6780</b>		<b>2,636.8471</b>

**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	5.7200e-003	0.1956	0.0494	5.0000e-004	0.0123	3.9000e-004	0.0126	3.5300e-003	3.7000e-004	3.9000e-003		53.8463	53.8463	3.9600e-003		53.9452
Worker	0.1249	0.0869	1.0160	3.2700e-003	0.3321	2.2100e-003	0.3343	0.0881	2.0300e-003	0.0901		326.1664	326.1664	9.0800e-003		326.3934
<b>Total</b>	<b>0.1306</b>	<b>0.2825</b>	<b>1.0654</b>	<b>3.7700e-003</b>	<b>0.3444</b>	<b>2.6000e-003</b>	<b>0.3470</b>	<b>0.0916</b>	<b>2.4000e-003</b>	<b>0.0940</b>		<b>380.0127</b>	<b>380.0127</b>	<b>0.0130</b>		<b>380.3386</b>

**4.0 Operational Detail - Mobile**

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Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, 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

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, 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					
General Light Industry	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					
General Light Industry	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**

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Summer

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.0684	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.3000e-004
Unmitigated	0.0739	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		7.6000e-004	7.6000e-004	0.0000		8.1000e-004

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		7.6000e-004	7.6000e-004	0.0000		8.1000e-004
<b>Total</b>	<b>0.0739</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>7.6000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>		<b>8.1000e-004</b>

**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	0.0684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.3000e-004
<b>Total</b>	<b>0.0684</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>4.3000e-004</b>

**7.0 Water Detail**



## Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Summer

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**7.1 Mitigation Measures Water****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****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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**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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Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

**Landfill Gas Pipeline-Trenchless**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	3.45	1000sqft	0.08	3,452.97	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1726	0
tblAreaCoating	Area_Nonresidential_Interior	5179	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1.00	20.00
tblConstructionPhase	NumDays	1.00	120.00
tblConstructionPhase	NumDays	1.00	120.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00

## Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	21.00	0.00
tblLandUse	BuildingSpaceSquareFeet	3,450.00	3,452.97
tblLandUse	LandUseSquareFeet	3,450.00	3,452.97
tblProjectCharacteristics	OperationalYear	2018	2021
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	4.28	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	26.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	797,812.50	0.00

## 2.0 Emissions Summary

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Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, 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	0.0739	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		7.6000e-004	7.6000e-004	0.0000		8.1000e-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
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>0.0739</b>	<b>0.0000</b>	<b>3.5000e-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>7.6000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.1000e-004</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	0.0684	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.3000e-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
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>0.0684</b>	<b>0.0000</b>	<b>2.0000e-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>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.3000e-004</b>

## Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, 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	7.51	0.00	42.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.05	46.05	0.00	0.00	46.91

### 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	Site Preparation at Portal Sites	Site Preparation	3/2/2020	3/27/2020	5	20	
2	Portal Excavation	Site Preparation	3/30/2020	9/11/2020	5	120	
3	Site Restoration	Site Preparation	9/14/2020	2/26/2021	5	120	
4	Tunnel Excavation	Trenching	3/1/2021	10/5/2021	5	157	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**



Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation at Portal Sites	Graders	1	8.00	187	0.41
Site Preparation at Portal Sites	Scrapers	1	8.00	367	0.48
Site Preparation at Portal Sites	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Portal Excavation	Excavators	1	8.00	158	0.38
Portal Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Portal Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Trenchers	1	8.00	78	0.50
Site Restoration	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tunnel Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Tunnel Excavation	Excavators	1	8.00	158	0.38
Tunnel Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Tunnel Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tunnel Excavation	Trenchers	1	8.00	78	0.50

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation at Portal Sites	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Portal Excavation	5	16.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Restoration	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Tunnel Excavation	5	26.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.2 Site Preparation at Portal Sites - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.6782	20.1828	11.5528	0.0249		0.7937	0.7937		0.7302	0.7302		2,410.502 3	2,410.502 3	0.7796		2,429.992 4
<b>Total</b>	<b>1.6782</b>	<b>20.1828</b>	<b>11.5528</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.7937</b>	<b>0.7937</b>	<b>0.0000</b>	<b>0.7302</b>	<b>0.7302</b>		<b>2,410.502 3</b>	<b>2,410.502 3</b>	<b>0.7796</b>		<b>2,429.992 4</b>

**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	0.0472	0.0330	0.3081	9.8000e-004	0.1022	6.9000e-004	0.1029	0.0271	6.4000e-004	0.0277		97.4472	97.4472	2.8300e-003		97.5180
<b>Total</b>	<b>0.0472</b>	<b>0.0330</b>	<b>0.3081</b>	<b>9.8000e-004</b>	<b>0.1022</b>	<b>6.9000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.4000e-004</b>	<b>0.0277</b>		<b>97.4472</b>	<b>97.4472</b>	<b>2.8300e-003</b>		<b>97.5180</b>

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.2 Site Preparation at Portal Sites - 2020**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5777	11.9870	13.9515	0.0249		0.5110	0.5110		0.5137	0.5137	0.0000	2,410.502 3	2,410.502 3	0.7796		2,429.992 4
<b>Total</b>	<b>0.5777</b>	<b>11.9870</b>	<b>13.9515</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.5110</b>	<b>0.5110</b>	<b>0.0000</b>	<b>0.5137</b>	<b>0.5137</b>	<b>0.0000</b>	<b>2,410.502 3</b>	<b>2,410.502 3</b>	<b>0.7796</b>		<b>2,429.992 4</b>

**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	0.0472	0.0330	0.3081	9.8000e-004	0.1022	6.9000e-004	0.1029	0.0271	6.4000e-004	0.0277		97.4472	97.4472	2.8300e-003		97.5180
<b>Total</b>	<b>0.0472</b>	<b>0.0330</b>	<b>0.3081</b>	<b>9.8000e-004</b>	<b>0.1022</b>	<b>6.9000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.4000e-004</b>	<b>0.0277</b>		<b>97.4472</b>	<b>97.4472</b>	<b>2.8300e-003</b>		<b>97.5180</b>

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**3.3 Portal Excavation - 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					4.3158	0.0000	4.3158	2.3723	0.0000	2.3723			0.0000			0.0000
Off-Road	2.5068	23.4458	16.6677	0.0272		1.3301	1.3301		1.2430	1.2430		2,619.5716	2,619.5716	0.6814		2,636.6069
<b>Total</b>	<b>2.5068</b>	<b>23.4458</b>	<b>16.6677</b>	<b>0.0272</b>	<b>4.3158</b>	<b>1.3301</b>	<b>5.6459</b>	<b>2.3723</b>	<b>1.2430</b>	<b>3.6153</b>		<b>2,619.5716</b>	<b>2,619.5716</b>	<b>0.6814</b>		<b>2,636.6069</b>

**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	0.0944	0.0660	0.6162	1.9600e-003	0.2044	1.3800e-003	0.2058	0.0542	1.2700e-003	0.0555		194.8944	194.8944	5.6700e-003		195.0360
<b>Total</b>	<b>0.0944</b>	<b>0.0660</b>	<b>0.6162</b>	<b>1.9600e-003</b>	<b>0.2044</b>	<b>1.3800e-003</b>	<b>0.2058</b>	<b>0.0542</b>	<b>1.2700e-003</b>	<b>0.0555</b>		<b>194.8944</b>	<b>194.8944</b>	<b>5.6700e-003</b>		<b>195.0360</b>

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.3 Portal Excavation - 2020**

**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					1.9421	0.0000	1.9421	1.0676	0.0000	1.0676			0.0000			0.0000
Off-Road	0.6016	13.2298	17.6778	0.0272		0.7472	0.7472		0.7498	0.7498	0.0000	2,619.5716	2,619.5716	0.6814		2,636.6069
<b>Total</b>	<b>0.6016</b>	<b>13.2298</b>	<b>17.6778</b>	<b>0.0272</b>	<b>1.9421</b>	<b>0.7472</b>	<b>2.6893</b>	<b>1.0676</b>	<b>0.7498</b>	<b>1.8174</b>	<b>0.0000</b>	<b>2,619.5716</b>	<b>2,619.5716</b>	<b>0.6814</b>		<b>2,636.6069</b>

**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	0.0944	0.0660	0.6162	1.9600e-003	0.2044	1.3800e-003	0.2058	0.0542	1.2700e-003	0.0555		194.8944	194.8944	5.6700e-003		195.0360
<b>Total</b>	<b>0.0944</b>	<b>0.0660</b>	<b>0.6162</b>	<b>1.9600e-003</b>	<b>0.2044</b>	<b>1.3800e-003</b>	<b>0.2058</b>	<b>0.0542</b>	<b>1.2700e-003</b>	<b>0.0555</b>		<b>194.8944</b>	<b>194.8944</b>	<b>5.6700e-003</b>		<b>195.0360</b>

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.4 Site Restoration - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2095	2.1052	2.2797	3.1100e-003		0.1331	0.1331		0.1225	0.1225		300.7685	300.7685	0.0973		303.2004
<b>Total</b>	<b>0.2095</b>	<b>2.1052</b>	<b>2.2797</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1331</b>	<b>0.1331</b>	<b>0.0000</b>	<b>0.1225</b>	<b>0.1225</b>		<b>300.7685</b>	<b>300.7685</b>	<b>0.0973</b>		<b>303.2004</b>

**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	0.0236	0.0165	0.1541	4.9000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.2000e-004	0.0139		48.7236	48.7236	1.4200e-003		48.7590
<b>Total</b>	<b>0.0236</b>	<b>0.0165</b>	<b>0.1541</b>	<b>4.9000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>48.7236</b>	<b>48.7236</b>	<b>1.4200e-003</b>		<b>48.7590</b>

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.4 Site Restoration - 2020**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0426	1.6417	2.3577	3.1100e-003		0.1186	0.1186		0.1213	0.1213	0.0000	300.7685	300.7685	0.0973		303.2004
<b>Total</b>	<b>0.0426</b>	<b>1.6417</b>	<b>2.3577</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1186</b>	<b>0.1186</b>	<b>0.0000</b>	<b>0.1213</b>	<b>0.1213</b>	<b>0.0000</b>	<b>300.7685</b>	<b>300.7685</b>	<b>0.0973</b>		<b>303.2004</b>

**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	0.0236	0.0165	0.1541	4.9000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.2000e-004	0.0139		48.7236	48.7236	1.4200e-003		48.7590
<b>Total</b>	<b>0.0236</b>	<b>0.0165</b>	<b>0.1541</b>	<b>4.9000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>48.7236</b>	<b>48.7236</b>	<b>1.4200e-003</b>		<b>48.7590</b>

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**3.4 Site Restoration - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1873	1.8958	2.2602	3.1100e-003		0.1118	0.1118		0.1028	0.1028		300.9001	300.9001	0.0973		303.3330
<b>Total</b>	<b>0.1873</b>	<b>1.8958</b>	<b>2.2602</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1118</b>	<b>0.1118</b>	<b>0.0000</b>	<b>0.1028</b>	<b>0.1028</b>		<b>300.9001</b>	<b>300.9001</b>	<b>0.0973</b>		<b>303.3330</b>

**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	0.0223	0.0150	0.1440	4.7000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.1000e-004	0.0139		47.0852	47.0852	1.3100e-003		47.1178
<b>Total</b>	<b>0.0223</b>	<b>0.0150</b>	<b>0.1440</b>	<b>4.7000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.1000e-004</b>	<b>0.0139</b>		<b>47.0852</b>	<b>47.0852</b>	<b>1.3100e-003</b>		<b>47.1178</b>



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**3.4 Site Restoration - 2021**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0481	1.6940	2.3625	3.1100e-003		0.1240	0.1240		0.1262	0.1262	0.0000	300.9001	300.9001	0.0973		303.3330
<b>Total</b>	<b>0.0481</b>	<b>1.6940</b>	<b>2.3625</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1240</b>	<b>0.1240</b>	<b>0.0000</b>	<b>0.1262</b>	<b>0.1262</b>	<b>0.0000</b>	<b>300.9001</b>	<b>300.9001</b>	<b>0.0973</b>		<b>303.3330</b>

**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	0.0223	0.0150	0.1440	4.7000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.1000e-004	0.0139		47.0852	47.0852	1.3100e-003		47.1178
<b>Total</b>	<b>0.0223</b>	<b>0.0150</b>	<b>0.1440</b>	<b>4.7000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.1000e-004</b>	<b>0.0139</b>		<b>47.0852</b>	<b>47.0852</b>	<b>1.3100e-003</b>		<b>47.1178</b>

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**3.5 Tunnel Excavation - 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	2.3575	22.0277	16.5155	0.0272		1.2118	1.2118		1.1315	1.1315		2,619.8969	2,619.8969	0.6780		2,636.8471
<b>Total</b>	<b>2.3575</b>	<b>22.0277</b>	<b>16.5155</b>	<b>0.0272</b>		<b>1.2118</b>	<b>1.2118</b>		<b>1.1315</b>	<b>1.1315</b>		<b>2,619.8969</b>	<b>2,619.8969</b>	<b>0.6780</b>		<b>2,636.8471</b>

**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	6.0400e-003	0.1948	0.0553	4.9000e-004	0.0123	4.1000e-004	0.0127	3.5300e-003	3.9000e-004	3.9200e-003		52.3397	52.3397	4.2200e-003		52.4451
Worker	0.1450	0.0975	0.9358	3.0700e-003	0.3321	2.2100e-003	0.3343	0.0881	2.0300e-003	0.0901		306.0535	306.0535	8.5000e-003		306.2660
<b>Total</b>	<b>0.1511</b>	<b>0.2923</b>	<b>0.9912</b>	<b>3.5600e-003</b>	<b>0.3444</b>	<b>2.6200e-003</b>	<b>0.3470</b>	<b>0.0916</b>	<b>2.4200e-003</b>	<b>0.0940</b>		<b>358.3932</b>	<b>358.3932</b>	<b>0.0127</b>		<b>358.7111</b>

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**3.5 Tunnel Excavation - 2021**

**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	0.6072	13.2821	17.6827	0.0272		0.7525	0.7525		0.7547	0.7547	0.0000	2,619.8969	2,619.8969	0.6780		2,636.8471
<b>Total</b>	<b>0.6072</b>	<b>13.2821</b>	<b>17.6827</b>	<b>0.0272</b>		<b>0.7525</b>	<b>0.7525</b>		<b>0.7547</b>	<b>0.7547</b>	<b>0.0000</b>	<b>2,619.8969</b>	<b>2,619.8969</b>	<b>0.6780</b>		<b>2,636.8471</b>

**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	6.0400e-003	0.1948	0.0553	4.9000e-004	0.0123	4.1000e-004	0.0127	3.5300e-003	3.9000e-004	3.9200e-003		52.3397	52.3397	4.2200e-003		52.4451
Worker	0.1450	0.0975	0.9358	3.0700e-003	0.3321	2.2100e-003	0.3343	0.0881	2.0300e-003	0.0901		306.0535	306.0535	8.5000e-003		306.2660
<b>Total</b>	<b>0.1511</b>	<b>0.2923</b>	<b>0.9912</b>	<b>3.5600e-003</b>	<b>0.3444</b>	<b>2.6200e-003</b>	<b>0.3470</b>	<b>0.0916</b>	<b>2.4200e-003</b>	<b>0.0940</b>		<b>358.3932</b>	<b>358.3932</b>	<b>0.0127</b>		<b>358.7111</b>

**4.0 Operational Detail - Mobile**

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Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	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

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, 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						
General Light Industry	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	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>	<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						
General Light Industry	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	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>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.0684	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.3000e-004
Unmitigated	0.0739	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		7.6000e-004	7.6000e-004	0.0000		8.1000e-004

Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

**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	0.0739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		7.6000e-004	7.6000e-004	0.0000		8.1000e-004
<b>Total</b>	<b>0.0739</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>7.6000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>		<b>8.1000e-004</b>

**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	0.0684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.3000e-004
<b>Total</b>	<b>0.0684</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>4.3000e-004</b>

**7.0 Water Detail**



## Landfill Gas Pipeline-Trenchless - San Diego County APCD Air District, Winter

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**7.1 Mitigation Measures Water****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****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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**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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**MBC Improvements**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.00	1000sqft	0.02	1,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

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Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No architectural coatings.

Landscape Equipment - There is no landscaping for this project.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - No water use.

Solid Waste - No solid waste generation.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.



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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	2.00	30.00
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	PhaseEndDate	10/20/2021	4/6/2020
tblConstructionPhase	PhaseStartDate	4/24/2019	7/2/2019
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblOffRoadEquipment	HorsePower	16.00	97.00
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Building Construction

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tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	16.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	231,250.00	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	4-24-2019	7-23-2019	0.3939	0.1475
2	7-24-2019	10-23-2019	0.5319	0.3283
3	10-24-2019	1-23-2020	0.5207	0.3284
4	1-24-2020	4-23-2020	0.4161	0.2769
		Highest	0.5319	0.3284

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	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</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	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</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	50.00	50.00	0.00	0.00	50.00

**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	Demolition	Demolition	5/1/2019	5/21/2019	5	15	
2	Grading	Grading	5/21/2019	7/1/2019	5	30	
3	Building Construction	Building Construction	7/2/2019	4/6/2020	5	200	
4	Paving	Paving	4/7/2020	4/15/2020	5	7	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Dumpers/Tenders	2	8.00	97	0.37
Demolition	Excavators	1	8.00	158	0.38
Grading	Dumpers/Tenders	2	8.00	16	0.38
Grading	Excavators	2	8.00	158	0.38
Grading	Plate Compactors	2	8.00	8	0.43

**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
Building Construction	7	16.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Demolition - 2019**

**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	0.0139	0.1377	0.0845	1.5000e-004		7.1100e-003	7.1100e-003		6.6800e-003	6.6800e-003	0.0000	13.2797	13.2797	3.2100e-003	0.0000	13.3599
<b>Total</b>	<b>0.0139</b>	<b>0.1377</b>	<b>0.0845</b>	<b>1.5000e-004</b>		<b>7.1100e-003</b>	<b>7.1100e-003</b>		<b>6.6800e-003</b>	<b>6.6800e-003</b>	<b>0.0000</b>	<b>13.2797</b>	<b>13.2797</b>	<b>3.2100e-003</b>	<b>0.0000</b>	<b>13.3599</b>

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**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.3000e-004	2.1900e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5614	0.5614	2.0000e-005	0.0000	0.5618
<b>Total</b>	<b>3.0000e-004</b>	<b>2.3000e-004</b>	<b>2.1900e-003</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5614</b>	<b>0.5614</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.5618</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	4.4700e-003	0.0518	0.0875	1.5000e-004		3.6300e-003	3.6300e-003		3.5500e-003	3.5500e-003	0.0000	13.2796	13.2796	3.2100e-003	0.0000	13.3599
<b>Total</b>	<b>4.4700e-003</b>	<b>0.0518</b>	<b>0.0875</b>	<b>1.5000e-004</b>		<b>3.6300e-003</b>	<b>3.6300e-003</b>		<b>3.5500e-003</b>	<b>3.5500e-003</b>	<b>0.0000</b>	<b>13.2796</b>	<b>13.2796</b>	<b>3.2100e-003</b>	<b>0.0000</b>	<b>13.3599</b>

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**3.2 Demolition - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.3000e-004	2.1900e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5614	0.5614	2.0000e-005	0.0000	0.5618
<b>Total</b>	<b>3.0000e-004</b>	<b>2.3000e-004</b>	<b>2.1900e-003</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5614</b>	<b>0.5614</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.5618</b>

**3.3 Grading - 2019**

**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					0.0113	0.0000	0.0113	6.2100e-003	0.0000	6.2100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1024	0.1122	1.9000e-004		4.7300e-003	4.7300e-003		4.4200e-003	4.4200e-003	0.0000	16.5770	16.5770	4.7000e-003	0.0000	16.6945
<b>Total</b>	<b>0.0113</b>	<b>0.1024</b>	<b>0.1122</b>	<b>1.9000e-004</b>	<b>0.0113</b>	<b>4.7300e-003</b>	<b>0.0160</b>	<b>6.2100e-003</b>	<b>4.4200e-003</b>	<b>0.0106</b>	<b>0.0000</b>	<b>16.5770</b>	<b>16.5770</b>	<b>4.7000e-003</b>	<b>0.0000</b>	<b>16.6945</b>

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**3.3 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.5000e-004	4.3900e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1227	1.1227	4.0000e-005	0.0000	1.1237
<b>Total</b>	<b>5.9000e-004</b>	<b>4.5000e-004</b>	<b>4.3900e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.1227</b>	<b>1.1227</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1237</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					5.0800e-003	0.0000	5.0800e-003	2.7900e-003	0.0000	2.7900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113		0.1122	1.9000e-004		4.7300e-003	4.7300e-003		4.4200e-003	4.4200e-003	0.0000	16.5770	16.5770	4.7000e-003	0.0000	16.6945
<b>Total</b>	<b>0.0113</b>		<b>0.1122</b>	<b>1.9000e-004</b>	<b>5.0800e-003</b>	<b>4.7300e-003</b>	<b>9.8100e-003</b>	<b>2.7900e-003</b>	<b>4.4200e-003</b>	<b>7.2100e-003</b>	<b>0.0000</b>	<b>16.5770</b>	<b>16.5770</b>	<b>4.7000e-003</b>	<b>0.0000</b>	<b>16.6945</b>

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**3.3 Grading - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.5000e-004	4.3900e-003	1.0000e-005	1.2000e-003	1.0000e-005	1.2100e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1227	1.1227	4.0000e-005	0.0000	1.1237
<b>Total</b>	<b>5.9000e-004</b>	<b>4.5000e-004</b>	<b>4.3900e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.1227</b>	<b>1.1227</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1237</b>

**3.4 Building Construction - 2019**

**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	0.1082	0.9282	0.6873	1.2300e-003		0.0500	0.0500		0.0478	0.0478	0.0000	104.5673	104.5673	0.0214	0.0000	105.1015
<b>Total</b>	<b>0.1082</b>	<b>0.9282</b>	<b>0.6873</b>	<b>1.2300e-003</b>		<b>0.0500</b>	<b>0.0500</b>		<b>0.0478</b>	<b>0.0478</b>	<b>0.0000</b>	<b>104.5673</b>	<b>104.5673</b>	<b>0.0214</b>	<b>0.0000</b>	<b>105.1015</b>



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**3.4 Building Construction - 2019**

**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	6.1000e-004	0.0164	4.4200e-003	4.0000e-005	8.7000e-004	1.1000e-004	9.8000e-004	2.5000e-004	1.1000e-004	3.6000e-004	0.0000	3.4804	3.4804	2.8000e-004	0.0000	3.4874
Worker	4.1300e-003	3.1700e-003	0.0307	9.0000e-005	8.4000e-003	6.0000e-005	8.4700e-003	2.2300e-003	6.0000e-005	2.2900e-003	0.0000	7.8442	7.8442	2.5000e-004	0.0000	7.8506
<b>Total</b>	<b>4.7400e-003</b>	<b>0.0196</b>	<b>0.0351</b>	<b>1.3000e-004</b>	<b>9.2700e-003</b>	<b>1.7000e-004</b>	<b>9.4500e-003</b>	<b>2.4800e-003</b>	<b>1.7000e-004</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>11.3246</b>	<b>11.3246</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>11.3379</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	0.0298	0.6006	0.7184	1.2300e-003		0.0353	0.0353		0.0353	0.0353	0.0000	104.5671	104.5671	0.0214	0.0000	105.1013
<b>Total</b>	<b>0.0298</b>	<b>0.6006</b>	<b>0.7184</b>	<b>1.2300e-003</b>		<b>0.0353</b>	<b>0.0353</b>		<b>0.0353</b>	<b>0.0353</b>	<b>0.0000</b>	<b>104.5671</b>	<b>104.5671</b>	<b>0.0214</b>	<b>0.0000</b>	<b>105.1013</b>

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**3.4 Building Construction - 2019**

**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	6.1000e-004	0.0164	4.4200e-003	4.0000e-005	8.7000e-004	1.1000e-004	9.8000e-004	2.5000e-004	1.1000e-004	3.6000e-004	0.0000	3.4804	3.4804	2.8000e-004	0.0000	3.4874
Worker	4.1300e-003	3.1700e-003	0.0307	9.0000e-005	8.4000e-003	6.0000e-005	8.4700e-003	2.2300e-003	6.0000e-005	2.2900e-003	0.0000	7.8442	7.8442	2.5000e-004	0.0000	7.8506
<b>Total</b>	<b>4.7400e-003</b>	<b>0.0196</b>	<b>0.0351</b>	<b>1.3000e-004</b>	<b>9.2700e-003</b>	<b>1.7000e-004</b>	<b>9.4500e-003</b>	<b>2.4800e-003</b>	<b>1.7000e-004</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>11.3246</b>	<b>11.3246</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>11.3379</b>

**3.4 Building Construction - 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					
Off-Road	0.0513	0.4473	0.3530	6.5000e-004		0.0229	0.0229		0.0219	0.0219	0.0000	54.4767	54.4767	0.0110	0.0000	54.7515
<b>Total</b>	<b>0.0513</b>	<b>0.4473</b>	<b>0.3530</b>	<b>6.5000e-004</b>		<b>0.0229</b>	<b>0.0229</b>		<b>0.0219</b>	<b>0.0219</b>	<b>0.0000</b>	<b>54.4767</b>	<b>54.4767</b>	<b>0.0110</b>	<b>0.0000</b>	<b>54.7515</b>

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**3.4 Building Construction - 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	2.6000e-004	7.8600e-003	2.0900e-003	2.0000e-005	4.6000e-004	4.0000e-005	5.0000e-004	1.3000e-004	4.0000e-005	1.7000e-004	0.0000	1.8206	1.8206	1.4000e-004	0.0000	1.8241
Worker	2.0300e-003	1.5100e-003	0.0148	4.0000e-005	4.4300e-003	3.0000e-005	4.4600e-003	1.1800e-003	3.0000e-005	1.2100e-003	0.0000	4.0013	4.0013	1.2000e-004	0.0000	4.0043
<b>Total</b>	<b>2.2900e-003</b>	<b>9.3700e-003</b>	<b>0.0148</b>	<b>6.0000e-005</b>	<b>4.8900e-003</b>	<b>7.0000e-005</b>	<b>4.9600e-003</b>	<b>1.3100e-003</b>	<b>7.0000e-005</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>5.8220</b>	<b>5.8220</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>5.8285</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	0.0157	0.3164	0.3784	6.5000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	54.4766	54.4766	0.0110	0.0000	54.7514
<b>Total</b>	<b>0.0157</b>	<b>0.3164</b>	<b>0.3784</b>	<b>6.5000e-004</b>		<b>0.0186</b>	<b>0.0186</b>		<b>0.0186</b>	<b>0.0186</b>	<b>0.0000</b>	<b>54.4766</b>	<b>54.4766</b>	<b>0.0110</b>	<b>0.0000</b>	<b>54.7514</b>

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**3.4 Building Construction - 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	2.6000e-004	7.8600e-003	2.0900e-003	2.0000e-005	4.6000e-004	4.0000e-005	5.0000e-004	1.3000e-004	4.0000e-005	1.7000e-004	0.0000	1.8206	1.8206	1.4000e-004	0.0000	1.8241
Worker	2.0300e-003	1.5100e-003	0.0148	4.0000e-005	4.4300e-003	3.0000e-005	4.4600e-003	1.1800e-003	3.0000e-005	1.2100e-003	0.0000	4.0013	4.0013	1.2000e-004	0.0000	4.0043
<b>Total</b>	<b>2.2900e-003</b>	<b>9.3700e-003</b>	<b>0.0148</b>	<b>6.0000e-005</b>	<b>4.8900e-003</b>	<b>7.0000e-005</b>	<b>4.9600e-003</b>	<b>1.3100e-003</b>	<b>7.0000e-005</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>5.8220</b>	<b>5.8220</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>5.8285</b>

**3.5 Paving - 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					
Off-Road	2.3600e-003	0.0245	0.0255	4.0000e-005		1.3100e-003	1.3100e-003		1.2100e-003	1.2100e-003	0.0000	3.4879	3.4879	1.1300e-003	0.0000	3.5161
Paving	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>2.3600e-003</b>	<b>0.0245</b>	<b>0.0255</b>	<b>4.0000e-005</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>		<b>1.2100e-003</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>3.4879</b>	<b>3.4879</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>3.5161</b>

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**3.5 Paving - 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	2.3000e-004	1.7000e-004	1.6900e-003	1.0000e-005	5.1000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4567	0.4567	1.0000e-005	0.0000	0.4570
<b>Total</b>	<b>2.3000e-004</b>	<b>1.7000e-004</b>	<b>1.6900e-003</b>	<b>1.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4567</b>	<b>0.4567</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4570</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	1.3500e-003	0.0130	0.0282	4.0000e-005		1.1100e-003	1.1100e-003		1.0800e-003	1.0800e-003	0.0000	3.4879	3.4879	1.1300e-003	0.0000	3.5161
Paving	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>1.3500e-003</b>	<b>0.0130</b>	<b>0.0282</b>	<b>4.0000e-005</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>1.0800e-003</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>3.4879</b>	<b>3.4879</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>3.5161</b>

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**3.5 Paving - 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	2.3000e-004	1.7000e-004	1.6900e-003	1.0000e-005	5.1000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4567	0.4567	1.0000e-005	0.0000	0.4570
<b>Total</b>	<b>2.3000e-004</b>	<b>1.7000e-004</b>	<b>1.6900e-003</b>	<b>1.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4567</b>	<b>0.4567</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4570</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
General Light Industry	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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N





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**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr					
General Light Industry	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	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>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

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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	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

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
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</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
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	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

MBC Improvements - San Diego County APCD Air District, Annual

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	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>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	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**

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**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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	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>

MBC Improvements - San Diego County APCD Air District, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	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**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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**11.0 Vegetation**

MBC Improvements - San Diego County APCD Air District, Annual

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MBC Improvements - San Diego County APCD Air District, Summer

**MBC Improvements**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.00	1000sqft	0.02	1,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

MBC Improvements - San Diego County APCD Air District, Summer

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No architectural coatings.

Landscape Equipment - There is no landscaping for this project.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - No water use.

Solid Waste - No solid waste generation.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.



MBC Improvements - San Diego County APCD Air District, Summer

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	2.00	30.00
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	PhaseEndDate	10/20/2021	4/6/2020
tblConstructionPhase	PhaseStartDate	4/24/2019	7/2/2019
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblOffRoadEquipment	HorsePower	16.00	97.00
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Building Construction

## MBC Improvements - San Diego County APCD Air District, Summer

tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	16.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

## 2.0 Emissions Summary

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MBC Improvements - San Diego County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-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
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>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-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>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</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	0.0000	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.2000e-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
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>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</b>

MBC Improvements - San Diego County APCD Air District, 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	100.00	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.45	45.45	0.00	0.00	47.83

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2019	5/21/2019	5	15	
2	Grading	Grading	5/21/2019	7/1/2019	5	30	
3	Building Construction	Building Construction	7/2/2019	4/6/2020	5	200	
4	Paving	Paving	4/7/2020	4/15/2020	5	7	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment



MBC Improvements - San Diego County APCD Air District, 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
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Dumpers/Tenders	2	8.00	97	0.37
Demolition	Excavators	1	8.00	158	0.38
Grading	Dumpers/Tenders	2	8.00	16	0.38
Grading	Excavators	2	8.00	158	0.38
Grading	Plate Compactors	2	8.00	8	0.43

**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
Building Construction	7	16.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

MBC Improvements - San Diego County APCD Air District, Summer

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Demolition - 2019**

**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	1.8586	18.3582	11.2658	0.0200		0.9482	0.9482		0.8907	0.8907		1,951.7754	1,951.7754	0.4717		1,963.5684
<b>Total</b>	<b>1.8586</b>	<b>18.3582</b>	<b>11.2658</b>	<b>0.0200</b>		<b>0.9482</b>	<b>0.9482</b>		<b>0.8907</b>	<b>0.8907</b>		<b>1,951.7754</b>	<b>1,951.7754</b>	<b>0.4717</b>		<b>1,963.5684</b>

MBC Improvements - San Diego County APCD Air District, Summer

**3.2 Demolition - 2019**

**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	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
<b>Total</b>	<b>0.0393</b>	<b>0.0274</b>	<b>0.3094</b>	<b>8.7000e-004</b>	<b>0.0822</b>	<b>5.9000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.4000e-004</b>	<b>0.0223</b>		<b>87.0200</b>	<b>87.0200</b>	<b>2.7800e-003</b>		<b>87.0894</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	0.5963	6.9002	11.6688	0.0200		0.4836	0.4836		0.4732	0.4732	0.0000	1,951.7754	1,951.7754	0.4717		1,963.5684
<b>Total</b>	<b>0.5963</b>	<b>6.9002</b>	<b>11.6688</b>	<b>0.0200</b>		<b>0.4836</b>	<b>0.4836</b>		<b>0.4732</b>	<b>0.4732</b>	<b>0.0000</b>	<b>1,951.7754</b>	<b>1,951.7754</b>	<b>0.4717</b>		<b>1,963.5684</b>

MBC Improvements - San Diego County APCD Air District, Summer

**3.2 Demolition - 2019**

**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	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
<b>Total</b>	<b>0.0393</b>	<b>0.0274</b>	<b>0.3094</b>	<b>8.7000e-004</b>	<b>0.0822</b>	<b>5.9000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.4000e-004</b>	<b>0.0223</b>		<b>87.0200</b>	<b>87.0200</b>	<b>2.7800e-003</b>		<b>87.0894</b>

**3.3 Grading - 2019**

**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					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.7514	6.8242	7.4816	0.0129		0.3153	0.3153		0.2945	0.2945		1,218.2018	1,218.2018	0.3453		1,226.8340
<b>Total</b>	<b>0.7514</b>	<b>6.8242</b>	<b>7.4816</b>	<b>0.0129</b>	<b>0.7528</b>	<b>0.3153</b>	<b>1.0681</b>	<b>0.4138</b>	<b>0.2945</b>	<b>0.7083</b>		<b>1,218.2018</b>	<b>1,218.2018</b>	<b>0.3453</b>		<b>1,226.8340</b>

MBC Improvements - San Diego County APCD Air District, Summer

**3.3 Grading - 2019**

**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	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
<b>Total</b>	<b>0.0393</b>	<b>0.0274</b>	<b>0.3094</b>	<b>8.7000e-004</b>	<b>0.0822</b>	<b>5.9000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.4000e-004</b>	<b>0.0223</b>		<b>87.0200</b>	<b>87.0200</b>	<b>2.7800e-003</b>		<b>87.0894</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					0.3387	0.0000	0.3387	0.1862	0.0000	0.1862			0.0000			0.0000
Off-Road	0.7514		7.4816	0.0129		0.3153	0.3153		0.2945	0.2945	0.0000	1,218.2018	1,218.2018	0.3453		1,226.8340
<b>Total</b>	<b>0.7514</b>		<b>7.4816</b>	<b>0.0129</b>	<b>0.3387</b>	<b>0.3153</b>	<b>0.6541</b>	<b>0.1862</b>	<b>0.2945</b>	<b>0.4807</b>	<b>0.0000</b>	<b>1,218.2018</b>	<b>1,218.2018</b>	<b>0.3453</b>		<b>1,226.8340</b>

MBC Improvements - San Diego County APCD Air District, Summer

**3.3 Grading - 2019**

**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	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
<b>Total</b>	<b>0.0393</b>	<b>0.0274</b>	<b>0.3094</b>	<b>8.7000e-004</b>	<b>0.0822</b>	<b>5.9000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.4000e-004</b>	<b>0.0223</b>		<b>87.0200</b>	<b>87.0200</b>	<b>2.7800e-003</b>		<b>87.0894</b>

**3.4 Building Construction - 2019**

**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	1.6511	14.1706	10.4925	0.0187		0.7626	0.7626		0.7298	0.7298		1,759.7811	1,759.7811	0.3596		1,768.7714
<b>Total</b>	<b>1.6511</b>	<b>14.1706</b>	<b>10.4925</b>	<b>0.0187</b>		<b>0.7626</b>	<b>0.7626</b>		<b>0.7298</b>	<b>0.7298</b>		<b>1,759.7811</b>	<b>1,759.7811</b>	<b>0.3596</b>		<b>1,768.7714</b>

MBC Improvements - San Diego County APCD Air District, Summer

**3.4 Building Construction - 2019**

**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	9.2100e-003	0.2480	0.0640	5.5000e-004	0.0135	1.7300e-003	0.0153	3.9000e-003	1.6500e-003	5.5500e-003		59.2033	59.2033	4.5700e-003		59.3176
Worker	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.0720</b>	<b>0.2918</b>	<b>0.5591</b>	<b>1.9500e-003</b>	<b>0.1450</b>	<b>2.6700e-003</b>	<b>0.1476</b>	<b>0.0388</b>	<b>2.5100e-003</b>	<b>0.0413</b>		<b>198.4353</b>	<b>198.4353</b>	<b>9.0200e-003</b>		<b>198.6607</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	0.4552	9.1697	10.9672	0.0187		0.5382	0.5382		0.5382	0.5382	0.0000	1,759.7811	1,759.7811	0.3596		1,768.7714
<b>Total</b>	<b>0.4552</b>	<b>9.1697</b>	<b>10.9672</b>	<b>0.0187</b>		<b>0.5382</b>	<b>0.5382</b>		<b>0.5382</b>	<b>0.5382</b>	<b>0.0000</b>	<b>1,759.7811</b>	<b>1,759.7811</b>	<b>0.3596</b>		<b>1,768.7714</b>

MBC Improvements - San Diego County APCD Air District, Summer

**3.4 Building Construction - 2019**

**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	9.2100e-003	0.2480	0.0640	5.5000e-004	0.0135	1.7300e-003	0.0153	3.9000e-003	1.6500e-003	5.5500e-003		59.2033	59.2033	4.5700e-003		59.3176
Worker	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.0720</b>	<b>0.2918</b>	<b>0.5591</b>	<b>1.9500e-003</b>	<b>0.1450</b>	<b>2.6700e-003</b>	<b>0.1476</b>	<b>0.0388</b>	<b>2.5100e-003</b>	<b>0.0413</b>		<b>198.4353</b>	<b>198.4353</b>	<b>9.0200e-003</b>		<b>198.6607</b>

**3.4 Building Construction - 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					
Off-Road	1.4869	12.9652	10.2331	0.0187		0.6638	0.6638		0.6354	0.6354		1,740.5868	1,740.5868	0.3512		1,749.3664
<b>Total</b>	<b>1.4869</b>	<b>12.9652</b>	<b>10.2331</b>	<b>0.0187</b>		<b>0.6638</b>	<b>0.6638</b>		<b>0.6354</b>	<b>0.6354</b>		<b>1,740.5868</b>	<b>1,740.5868</b>	<b>0.3512</b>		<b>1,749.3664</b>



MBC Improvements - San Diego County APCD Air District, Summer

**3.4 Building Construction - 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	7.4700e-003	0.2255	0.0575	5.5000e-004	0.0135	1.1000e-003	0.0146	3.9000e-003	1.0600e-003	4.9500e-003		58.8080	58.8080	4.3400e-003		58.9165
Worker	0.0587	0.0396	0.4535	1.3500e-003	0.1314	9.2000e-004	0.1324	0.0349	8.5000e-004	0.0357		134.8395	134.8395	4.0300e-003		134.9402
<b>Total</b>	<b>0.0662</b>	<b>0.2651</b>	<b>0.5110</b>	<b>1.9000e-003</b>	<b>0.1450</b>	<b>2.0200e-003</b>	<b>0.1470</b>	<b>0.0388</b>	<b>1.9100e-003</b>	<b>0.0407</b>		<b>193.6476</b>	<b>193.6476</b>	<b>8.3700e-003</b>		<b>193.8567</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	0.4552	9.1697	10.9672	0.0187		0.5382	0.5382		0.5382	0.5382	0.0000	1,740.5868	1,740.5868	0.3512		1,749.3664
<b>Total</b>	<b>0.4552</b>	<b>9.1697</b>	<b>10.9672</b>	<b>0.0187</b>		<b>0.5382</b>	<b>0.5382</b>		<b>0.5382</b>	<b>0.5382</b>	<b>0.0000</b>	<b>1,740.5868</b>	<b>1,740.5868</b>	<b>0.3512</b>		<b>1,749.3664</b>

MBC Improvements - San Diego County APCD Air District, Summer

**3.4 Building Construction - 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	7.4700e-003	0.2255	0.0575	5.5000e-004	0.0135	1.1000e-003	0.0146	3.9000e-003	1.0600e-003	4.9500e-003		58.8080	58.8080	4.3400e-003		58.9165
Worker	0.0587	0.0396	0.4535	1.3500e-003	0.1314	9.2000e-004	0.1324	0.0349	8.5000e-004	0.0357		134.8395	134.8395	4.0300e-003		134.9402
<b>Total</b>	<b>0.0662</b>	<b>0.2651</b>	<b>0.5110</b>	<b>1.9000e-003</b>	<b>0.1450</b>	<b>2.0200e-003</b>	<b>0.1470</b>	<b>0.0388</b>	<b>1.9100e-003</b>	<b>0.0407</b>		<b>193.6476</b>	<b>193.6476</b>	<b>8.3700e-003</b>		<b>193.8567</b>

**3.5 Paving - 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					
Off-Road	0.6755	7.0036	7.2915	0.0113		0.3749	0.3749		0.3449	0.3449		1,098.4968	1,098.4968	0.3553		1,107.3787
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6755</b>	<b>7.0036</b>	<b>7.2915</b>	<b>0.0113</b>		<b>0.3749</b>	<b>0.3749</b>		<b>0.3449</b>	<b>0.3449</b>		<b>1,098.4968</b>	<b>1,098.4968</b>	<b>0.3553</b>		<b>1,107.3787</b>

MBC Improvements - San Diego County APCD Air District, Summer

**3.5 Paving - 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	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
<b>Total</b>	<b>0.0661</b>	<b>0.0445</b>	<b>0.5102</b>	<b>1.5200e-003</b>	<b>0.1479</b>	<b>1.0400e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.6000e-004</b>	<b>0.0402</b>		<b>151.6945</b>	<b>151.6945</b>	<b>4.5300e-003</b>		<b>151.8077</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	0.3845	3.7032	8.0467	0.0113		0.3164	0.3164		0.3080	0.3080	0.0000	1,098.4968	1,098.4968	0.3553		1,107.3787
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3845</b>	<b>3.7032</b>	<b>8.0467</b>	<b>0.0113</b>		<b>0.3164</b>	<b>0.3164</b>		<b>0.3080</b>	<b>0.3080</b>	<b>0.0000</b>	<b>1,098.4968</b>	<b>1,098.4968</b>	<b>0.3553</b>		<b>1,107.3787</b>

MBC Improvements - San Diego County APCD Air District, Summer

**3.5 Paving - 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	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
<b>Total</b>	<b>0.0661</b>	<b>0.0445</b>	<b>0.5102</b>	<b>1.5200e-003</b>	<b>0.1479</b>	<b>1.0400e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.6000e-004</b>	<b>0.0402</b>		<b>151.6945</b>	<b>151.6945</b>	<b>4.5300e-003</b>		<b>151.8077</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

MBC Improvements - San Diego County APCD Air District, 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
General Light Industry	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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

MBC Improvements - San Diego County APCD Air District, Summer

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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	
<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>	

MBC Improvements - San Diego County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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**

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

MBC Improvements - San Diego County APCD Air District, 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	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.2000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>



MBC Improvements - San Diego County APCD Air District, 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
Landscaping	0.0000	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.2000e-004
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>		<b>1.2000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**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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MBC Improvements - San Diego County APCD Air District, Summer

**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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MBC Improvements - San Diego County APCD Air District, Winter

**MBC Improvements**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.00	1000sqft	0.02	1,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

MBC Improvements - San Diego County APCD Air District, Winter

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No architectural coatings.

Landscape Equipment - There is no landscaping for this project.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - No water use.

Solid Waste - No solid waste generation.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.



MBC Improvements - San Diego County APCD Air District, Winter

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	2.00	30.00
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	PhaseEndDate	10/20/2021	4/6/2020
tblConstructionPhase	PhaseStartDate	4/24/2019	7/2/2019
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblOffRoadEquipment	HorsePower	16.00	97.00
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Building Construction

## MBC Improvements - San Diego County APCD Air District, Winter

tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	16.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

## 2.0 Emissions Summary

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MBC Improvements - San Diego County APCD Air District, 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	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-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
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>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-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>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</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	0.0000	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.2000e-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
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>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</b>

MBC Improvements - San Diego County APCD Air District, 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	100.00	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.45	45.45	0.00	0.00	47.83

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2019	5/21/2019	5	15	
2	Grading	Grading	5/21/2019	7/1/2019	5	30	
3	Building Construction	Building Construction	7/2/2019	4/6/2020	5	200	
4	Paving	Paving	4/7/2020	4/15/2020	5	7	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

MBC Improvements - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Dumpers/Tenders	2	8.00	97	0.37
Demolition	Excavators	1	8.00	158	0.38
Grading	Dumpers/Tenders	2	8.00	16	0.38
Grading	Excavators	2	8.00	158	0.38
Grading	Plate Compactors	2	8.00	8	0.43

**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
Building Construction	7	16.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

MBC Improvements - San Diego County APCD Air District, Winter

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Demolition - 2019**

**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	1.8586	18.3582	11.2658	0.0200		0.9482	0.9482		0.8907	0.8907		1,951.775 4	1,951.775 4	0.4717		1,963.568 4
<b>Total</b>	<b>1.8586</b>	<b>18.3582</b>	<b>11.2658</b>	<b>0.0200</b>		<b>0.9482</b>	<b>0.9482</b>		<b>0.8907</b>	<b>0.8907</b>		<b>1,951.775 4</b>	<b>1,951.775 4</b>	<b>0.4717</b>		<b>1,963.568 4</b>

MBC Improvements - San Diego County APCD Air District, Winter

**3.2 Demolition - 2019**

**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	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
<b>Total</b>	<b>0.0444</b>	<b>0.0308</b>	<b>0.2924</b>	<b>8.2000e-004</b>	<b>0.0822</b>	<b>5.9000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.4000e-004</b>	<b>0.0223</b>		<b>81.6914</b>	<b>81.6914</b>	<b>2.6400e-003</b>		<b>81.7573</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	0.5963	6.9002	11.6688	0.0200		0.4836	0.4836		0.4732	0.4732	0.0000	1,951.7754	1,951.7754	0.4717		1,963.5684
<b>Total</b>	<b>0.5963</b>	<b>6.9002</b>	<b>11.6688</b>	<b>0.0200</b>		<b>0.4836</b>	<b>0.4836</b>		<b>0.4732</b>	<b>0.4732</b>	<b>0.0000</b>	<b>1,951.7754</b>	<b>1,951.7754</b>	<b>0.4717</b>		<b>1,963.5684</b>

MBC Improvements - San Diego County APCD Air District, Winter

**3.2 Demolition - 2019**

**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	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
<b>Total</b>	<b>0.0444</b>	<b>0.0308</b>	<b>0.2924</b>	<b>8.2000e-004</b>	<b>0.0822</b>	<b>5.9000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.4000e-004</b>	<b>0.0223</b>		<b>81.6914</b>	<b>81.6914</b>	<b>2.6400e-003</b>		<b>81.7573</b>

**3.3 Grading - 2019**

**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					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.7514	6.8242	7.4816	0.0129		0.3153	0.3153		0.2945	0.2945		1,218.2018	1,218.2018	0.3453		1,226.8340
<b>Total</b>	<b>0.7514</b>	<b>6.8242</b>	<b>7.4816</b>	<b>0.0129</b>	<b>0.7528</b>	<b>0.3153</b>	<b>1.0681</b>	<b>0.4138</b>	<b>0.2945</b>	<b>0.7083</b>		<b>1,218.2018</b>	<b>1,218.2018</b>	<b>0.3453</b>		<b>1,226.8340</b>

MBC Improvements - San Diego County APCD Air District, Winter

**3.3 Grading - 2019**

**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	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
<b>Total</b>	<b>0.0444</b>	<b>0.0308</b>	<b>0.2924</b>	<b>8.2000e-004</b>	<b>0.0822</b>	<b>5.9000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.4000e-004</b>	<b>0.0223</b>		<b>81.6914</b>	<b>81.6914</b>	<b>2.6400e-003</b>		<b>81.7573</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					0.3387	0.0000	0.3387	0.1862	0.0000	0.1862			0.0000			0.0000
Off-Road	0.7514		7.4816	0.0129		0.3153	0.3153		0.2945	0.2945	0.0000	1,218.2018	1,218.2018	0.3453		1,226.8340
<b>Total</b>	<b>0.7514</b>		<b>7.4816</b>	<b>0.0129</b>	<b>0.3387</b>	<b>0.3153</b>	<b>0.6541</b>	<b>0.1862</b>	<b>0.2945</b>	<b>0.4807</b>	<b>0.0000</b>	<b>1,218.2018</b>	<b>1,218.2018</b>	<b>0.3453</b>		<b>1,226.8340</b>

MBC Improvements - San Diego County APCD Air District, Winter

**3.3 Grading - 2019**

**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	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
<b>Total</b>	<b>0.0444</b>	<b>0.0308</b>	<b>0.2924</b>	<b>8.2000e-004</b>	<b>0.0822</b>	<b>5.9000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.4000e-004</b>	<b>0.0223</b>		<b>81.6914</b>	<b>81.6914</b>	<b>2.6400e-003</b>		<b>81.7573</b>

**3.4 Building Construction - 2019**

**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	1.6511	14.1706	10.4925	0.0187		0.7626	0.7626		0.7298	0.7298		1,759.7811	1,759.7811	0.3596		1,768.7714
<b>Total</b>	<b>1.6511</b>	<b>14.1706</b>	<b>10.4925</b>	<b>0.0187</b>		<b>0.7626</b>	<b>0.7626</b>		<b>0.7298</b>	<b>0.7298</b>		<b>1,759.7811</b>	<b>1,759.7811</b>	<b>0.3596</b>		<b>1,768.7714</b>



MBC Improvements - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2019**

**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	9.6000e-003	0.2482	0.0710	5.4000e-004	0.0135	1.7600e-003	0.0153	3.9000e-003	1.6800e-003	5.5800e-003		57.7001	57.7001	4.8600e-003		57.8216
Worker	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.0807</b>	<b>0.2974</b>	<b>0.5388</b>	<b>1.8500e-003</b>	<b>0.1450</b>	<b>2.7000e-003</b>	<b>0.1477</b>	<b>0.0388</b>	<b>2.5400e-003</b>	<b>0.0413</b>		<b>188.4063</b>	<b>188.4063</b>	<b>9.0800e-003</b>		<b>188.6333</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	0.4552	9.1697	10.9672	0.0187		0.5382	0.5382		0.5382	0.5382	0.0000	1,759.7811	1,759.7811	0.3596		1,768.7714
<b>Total</b>	<b>0.4552</b>	<b>9.1697</b>	<b>10.9672</b>	<b>0.0187</b>		<b>0.5382</b>	<b>0.5382</b>		<b>0.5382</b>	<b>0.5382</b>	<b>0.0000</b>	<b>1,759.7811</b>	<b>1,759.7811</b>	<b>0.3596</b>		<b>1,768.7714</b>

MBC Improvements - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2019**

**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	9.6000e-003	0.2482	0.0710	5.4000e-004	0.0135	1.7600e-003	0.0153	3.9000e-003	1.6800e-003	5.5800e-003		57.7001	57.7001	4.8600e-003		57.8216
Worker	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.0807</b>	<b>0.2974</b>	<b>0.5388</b>	<b>1.8500e-003</b>	<b>0.1450</b>	<b>2.7000e-003</b>	<b>0.1477</b>	<b>0.0388</b>	<b>2.5400e-003</b>	<b>0.0413</b>		<b>188.4063</b>	<b>188.4063</b>	<b>9.0800e-003</b>		<b>188.6333</b>

**3.4 Building Construction - 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					
Off-Road	1.4869	12.9652	10.2331	0.0187		0.6638	0.6638		0.6354	0.6354		1,740.5868	1,740.5868	0.3512		1,749.3664
<b>Total</b>	<b>1.4869</b>	<b>12.9652</b>	<b>10.2331</b>	<b>0.0187</b>		<b>0.6638</b>	<b>0.6638</b>		<b>0.6354</b>	<b>0.6354</b>		<b>1,740.5868</b>	<b>1,740.5868</b>	<b>0.3512</b>		<b>1,749.3664</b>

MBC Improvements - San Diego County APCD Air District, Winter

**3.4 Building Construction - 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	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003		57.2924	57.2924	4.6100e-003		57.4077
Worker	0.0665	0.0444	0.4276	1.2700e-003	0.1314	9.2000e-004	0.1324	0.0349	8.5000e-004	0.0357		126.5811	126.5811	3.8100e-003		126.6764
<b>Total</b>	<b>0.0743</b>	<b>0.2698</b>	<b>0.4914</b>	<b>1.8000e-003</b>	<b>0.1450</b>	<b>2.0400e-003</b>	<b>0.1470</b>	<b>0.0388</b>	<b>1.9300e-003</b>	<b>0.0407</b>		<b>183.8736</b>	<b>183.8736</b>	<b>8.4200e-003</b>		<b>184.0841</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	0.4552	9.1697	10.9672	0.0187		0.5382	0.5382		0.5382	0.5382	0.0000	1,740.5868	1,740.5868	0.3512		1,749.3664
<b>Total</b>	<b>0.4552</b>	<b>9.1697</b>	<b>10.9672</b>	<b>0.0187</b>		<b>0.5382</b>	<b>0.5382</b>		<b>0.5382</b>	<b>0.5382</b>	<b>0.0000</b>	<b>1,740.5868</b>	<b>1,740.5868</b>	<b>0.3512</b>		<b>1,749.3664</b>

MBC Improvements - San Diego County APCD Air District, Winter

**3.4 Building Construction - 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	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003		57.2924	57.2924	4.6100e-003		57.4077
Worker	0.0665	0.0444	0.4276	1.2700e-003	0.1314	9.2000e-004	0.1324	0.0349	8.5000e-004	0.0357		126.5811	126.5811	3.8100e-003		126.6764
<b>Total</b>	<b>0.0743</b>	<b>0.2698</b>	<b>0.4914</b>	<b>1.8000e-003</b>	<b>0.1450</b>	<b>2.0400e-003</b>	<b>0.1470</b>	<b>0.0388</b>	<b>1.9300e-003</b>	<b>0.0407</b>		<b>183.8736</b>	<b>183.8736</b>	<b>8.4200e-003</b>		<b>184.0841</b>

**3.5 Paving - 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					
Off-Road	0.6755	7.0036	7.2915	0.0113		0.3749	0.3749		0.3449	0.3449		1,098.4968	1,098.4968	0.3553		1,107.3787
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6755</b>	<b>7.0036</b>	<b>7.2915</b>	<b>0.0113</b>		<b>0.3749</b>	<b>0.3749</b>		<b>0.3449</b>	<b>0.3449</b>		<b>1,098.4968</b>	<b>1,098.4968</b>	<b>0.3553</b>		<b>1,107.3787</b>

MBC Improvements - San Diego County APCD Air District, Winter

**3.5 Paving - 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	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109
<b>Total</b>	<b>0.0748</b>	<b>0.0500</b>	<b>0.4810</b>	<b>1.4300e-003</b>	<b>0.1479</b>	<b>1.0400e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.6000e-004</b>	<b>0.0402</b>		<b>142.4038</b>	<b>142.4038</b>	<b>4.2900e-003</b>		<b>142.5109</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	0.3845	3.7032	8.0467	0.0113		0.3164	0.3164		0.3080	0.3080	0.0000	1,098.4968	1,098.4968	0.3553		1,107.3787
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3845</b>	<b>3.7032</b>	<b>8.0467</b>	<b>0.0113</b>		<b>0.3164</b>	<b>0.3164</b>		<b>0.3080</b>	<b>0.3080</b>	<b>0.0000</b>	<b>1,098.4968</b>	<b>1,098.4968</b>	<b>0.3553</b>		<b>1,107.3787</b>

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**3.5 Paving - 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	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109
<b>Total</b>	<b>0.0748</b>	<b>0.0500</b>	<b>0.4810</b>	<b>1.4300e-003</b>	<b>0.1479</b>	<b>1.0400e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.6000e-004</b>	<b>0.0402</b>		<b>142.4038</b>	<b>142.4038</b>	<b>4.2900e-003</b>		<b>142.5109</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

MBC Improvements - San Diego County APCD Air District, 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	0.0000	0.0000	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
General Light Industry	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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

MBC Improvements - San Diego County APCD Air District, Winter

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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	
<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>	



MBC Improvements - San Diego County APCD Air District, Winter

**5.2 Energy by Land Use - Natural Gas**

**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					
General Light Industry	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**

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

MBC Improvements - San Diego County APCD Air District, 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	0.0000	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.2000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.2000e-004
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>		<b>1.2000e-004</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

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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**Miramar Water Treatment Plant Improvements**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.00	1000sqft	0.02	1,000.00	2

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

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Architectural Coating - No architectural coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - There are no coatings for this project.

Landscape Equipment - There is no landscaping for this project.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - EPA waste generation of 4.46 lb/person/day

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.

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Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00

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tblEnergyUse	T24NG	4.34	0.00
tblLandUse	Population	0.00	2.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblSolidWaste	SolidWasteGenerationRate	1.24	1.16
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	50.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	231,250.00	41,600.00

## 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	7-24-2020	9-30-2020	0.4176	0.2781
		Highest	0.4176	0.2781

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	3.9100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.2355	0.0000	0.2355	0.0139	0.0000	0.5834
Water						0.0000	0.0000		0.0000	0.0000	0.0132	0.1770	0.1902	1.3600e-003	3.0000e-005	0.2343
<b>Total</b>	<b>3.9100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.2487</b>	<b>0.1770</b>	<b>0.4257</b>	<b>0.0153</b>	<b>3.0000e-005</b>	<b>0.8177</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	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.2355	0.0000	0.2355	0.0139	0.0000	0.5834
Water						0.0000	0.0000		0.0000	0.0000	0.0132	0.1770	0.1902	1.3600e-003	3.0000e-005	0.2343
<b>Total</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.2487</b>	<b>0.1770</b>	<b>0.4257</b>	<b>0.0153</b>	<b>3.0000e-005</b>	<b>0.8177</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>7.67</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/24/2020	8/6/2020	5	10	
2	Building Construction	Building Construction	8/7/2020	10/29/2020	5	60	

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**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	50.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 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					
Off-Road	9.5800e-003	0.0942	0.0619	1.0000e-004		5.1000e-003	5.1000e-003		4.7700e-003	4.7700e-003	0.0000	9.1696	9.1696	2.2700e-003	0.0000	9.2262
<b>Total</b>	<b>9.5800e-003</b>	<b>0.0942</b>	<b>0.0619</b>	<b>1.0000e-004</b>		<b>5.1000e-003</b>	<b>5.1000e-003</b>		<b>4.7700e-003</b>	<b>4.7700e-003</b>	<b>0.0000</b>	<b>9.1696</b>	<b>9.1696</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>9.2262</b>

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**3.2 Demolition - 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	1.8000e-004	1.4000e-004	1.3400e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3624	0.3624	1.0000e-005	0.0000	0.3627
<b>Total</b>	<b>1.8000e-004</b>	<b>1.4000e-004</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3624</b>	<b>0.3624</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3627</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	2.4300e-003	0.0518	0.0654	1.0000e-004		2.9800e-003	2.9800e-003		2.9800e-003	2.9800e-003	0.0000	9.1696	9.1696	2.2700e-003	0.0000	9.2262
<b>Total</b>	<b>2.4300e-003</b>	<b>0.0518</b>	<b>0.0654</b>	<b>1.0000e-004</b>		<b>2.9800e-003</b>	<b>2.9800e-003</b>		<b>2.9800e-003</b>	<b>2.9800e-003</b>	<b>0.0000</b>	<b>9.1696</b>	<b>9.1696</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>9.2262</b>

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**3.2 Demolition - 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	1.8000e-004	1.4000e-004	1.3400e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3624	0.3624	1.0000e-005	0.0000	0.3627
<b>Total</b>	<b>1.8000e-004</b>	<b>1.4000e-004</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3624</b>	<b>0.3624</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3627</b>

**3.3 Building Construction - 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					
Off-Road	0.0419	0.3927	0.3099	5.2000e-004		0.0206	0.0206		0.0191	0.0191	0.0000	44.4090	44.4090	0.0134	0.0000	44.7433
<b>Total</b>	<b>0.0419</b>	<b>0.3927</b>	<b>0.3099</b>	<b>5.2000e-004</b>		<b>0.0206</b>	<b>0.0206</b>		<b>0.0191</b>	<b>0.0191</b>	<b>0.0000</b>	<b>44.4090</b>	<b>44.4090</b>	<b>0.0134</b>	<b>0.0000</b>	<b>44.7433</b>

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**3.3 Building Construction - 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	1.1400e-003	0.0342	9.0900e-003	8.0000e-005	1.9900e-003	1.7000e-004	2.1600e-003	5.7000e-004	1.6000e-004	7.3000e-004	0.0000	7.9158	7.9158	6.1000e-004	0.0000	7.9310
Worker	5.5300e-003	4.0900e-003	0.0401	1.2000e-004	0.0120	9.0000e-005	0.0121	3.2000e-003	8.0000e-005	3.2800e-003	0.0000	10.8731	10.8731	3.3000e-004	0.0000	10.8813
<b>Total</b>	<b>6.6700e-003</b>	<b>0.0383</b>	<b>0.0492</b>	<b>2.0000e-004</b>	<b>0.0140</b>	<b>2.6000e-004</b>	<b>0.0143</b>	<b>3.7700e-003</b>	<b>2.4000e-004</b>	<b>4.0100e-003</b>	<b>0.0000</b>	<b>18.7890</b>	<b>18.7890</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>18.8123</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	0.0140	0.2832	0.3399	5.2000e-004		0.0167	0.0167		0.0167	0.0167	0.0000	44.4090	44.4090	0.0134	0.0000	44.7433
<b>Total</b>	<b>0.0140</b>	<b>0.2832</b>	<b>0.3399</b>	<b>5.2000e-004</b>		<b>0.0167</b>	<b>0.0167</b>		<b>0.0167</b>	<b>0.0167</b>	<b>0.0000</b>	<b>44.4090</b>	<b>44.4090</b>	<b>0.0134</b>	<b>0.0000</b>	<b>44.7433</b>



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**3.3 Building Construction - 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	1.1400e-003	0.0342	9.0900e-003	8.0000e-005	1.9900e-003	1.7000e-004	2.1600e-003	5.7000e-004	1.6000e-004	7.3000e-004	0.0000	7.9158	7.9158	6.1000e-004	0.0000	7.9310
Worker	5.5300e-003	4.0900e-003	0.0401	1.2000e-004	0.0120	9.0000e-005	0.0121	3.2000e-003	8.0000e-005	3.2800e-003	0.0000	10.8731	10.8731	3.3000e-004	0.0000	10.8813
<b>Total</b>	<b>6.6700e-003</b>	<b>0.0383</b>	<b>0.0492</b>	<b>2.0000e-004</b>	<b>0.0140</b>	<b>2.6000e-004</b>	<b>0.0143</b>	<b>3.7700e-003</b>	<b>2.4000e-004</b>	<b>4.0100e-003</b>	<b>0.0000</b>	<b>18.7890</b>	<b>18.7890</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>18.8123</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

5.0 Energy Detail

Historical Energy Use: N



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**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr					
General Light Industry	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	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>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

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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	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	3.9100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

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	3.9100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
<b>Total</b>	<b>3.9100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</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	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
<b>Total</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.1902	1.3600e-003	3.0000e-005	0.2343
Unmitigated	0.1902	1.3600e-003	3.0000e-005	0.2343

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.0416 / 0	0.1902	1.3600e-003	3.0000e-005	0.2343
<b>Total</b>		<b>0.1902</b>	<b>1.3600e-003</b>	<b>3.0000e-005</b>	<b>0.2343</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			
General Light Industry	0.0416 / 0	0.1902	1.3600e-003	3.0000e-005	0.2343
<b>Total</b>		<b>0.1902</b>	<b>1.3600e-003</b>	<b>3.0000e-005</b>	<b>0.2343</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2355	0.0139	0.0000	0.5834
Unmitigated	0.2355	0.0139	0.0000	0.5834

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	1.16	0.2355	0.0139	0.0000	0.5834
<b>Total</b>		<b>0.2355</b>	<b>0.0139</b>	<b>0.0000</b>	<b>0.5834</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	1.16	0.2355	0.0139	0.0000	0.5834
<b>Total</b>		<b>0.2355</b>	<b>0.0139</b>	<b>0.0000</b>	<b>0.5834</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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**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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Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Summer

**Miramar Water Treatment Plant Improvements**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.00	1000sqft	0.02	1,000.00	2

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

## Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Summer

Architectural Coating - No architectural coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - There are no coatings for this project.

Landscape Equipment - There is no landscaping for this project.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - EPA waste generation of 4.46 lb/person/day

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Summer

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00

## Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Summer

tblEnergyUse	T24NG	4.34	0.00
tblLandUse	Population	0.00	2.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblSolidWaste	SolidWasteGenerationRate	1.24	1.16
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	50.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	231,250.00	41,600.00

## 2.0 Emissions Summary

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Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, 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	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-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
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>0.0214</b>	<b>0.0000</b>	<b>1.0000e-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>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</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	0.0198	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.2000e-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
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>0.0198</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</b>

## Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, 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	7.52	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.45	45.45	0.00	0.00	47.83

### 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	Demolition	Demolition	7/24/2020	8/6/2020	5	10	
2	Building Construction	Building Construction	8/7/2020	10/29/2020	5	60	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	50.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Summer

**3.2 Demolition - 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					
Off-Road	1.9167	18.8412	12.3776	0.0210		1.0194	1.0194		0.9537	0.9537		2,021.544 2	2,021.544 2	0.4997		2,034.036 0
<b>Total</b>	<b>1.9167</b>	<b>18.8412</b>	<b>12.3776</b>	<b>0.0210</b>		<b>1.0194</b>	<b>1.0194</b>		<b>0.9537</b>	<b>0.9537</b>		<b>2,021.544 2</b>	<b>2,021.544 2</b>	<b>0.4997</b>		<b>2,034.036 0</b>

**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	0.0367	0.0247	0.2835	8.5000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		84.2747	84.2747	2.5200e-003		84.3376
<b>Total</b>	<b>0.0367</b>	<b>0.0247</b>	<b>0.2835</b>	<b>8.5000e-004</b>	<b>0.0822</b>	<b>5.8000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.3000e-004</b>	<b>0.0223</b>		<b>84.2747</b>	<b>84.2747</b>	<b>2.5200e-003</b>		<b>84.3376</b>

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Summer

**3.2 Demolition - 2020**

**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	0.4862	10.3690	13.0734	0.0210		0.5966	0.5966		0.5966	0.5966	0.0000	2,021.544 2	2,021.544 2	0.4997		2,034.036 0
<b>Total</b>	<b>0.4862</b>	<b>10.3690</b>	<b>13.0734</b>	<b>0.0210</b>		<b>0.5966</b>	<b>0.5966</b>		<b>0.5966</b>	<b>0.5966</b>	<b>0.0000</b>	<b>2,021.544 2</b>	<b>2,021.544 2</b>	<b>0.4997</b>		<b>2,034.036 0</b>

**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	0.0367	0.0247	0.2835	8.5000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		84.2747	84.2747	2.5200e-003		84.3376
<b>Total</b>	<b>0.0367</b>	<b>0.0247</b>	<b>0.2835</b>	<b>8.5000e-004</b>	<b>0.0822</b>	<b>5.8000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.3000e-004</b>	<b>0.0223</b>		<b>84.2747</b>	<b>84.2747</b>	<b>2.5200e-003</b>		<b>84.3376</b>

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Summer

**3.3 Building Construction - 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					
Off-Road	1.3967	13.0903	10.3300	0.0173		0.6859	0.6859		0.6380	0.6380		1,631.7530	1,631.7530	0.4913		1,644.0357
<b>Total</b>	<b>1.3967</b>	<b>13.0903</b>	<b>10.3300</b>	<b>0.0173</b>		<b>0.6859</b>	<b>0.6859</b>		<b>0.6380</b>	<b>0.6380</b>		<b>1,631.7530</b>	<b>1,631.7530</b>	<b>0.4913</b>		<b>1,644.0357</b>

**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	0.0374	1.1276	0.2873	2.7400e-003	0.0677	5.5200e-003	0.0732	0.0195	5.2800e-003	0.0248		294.0401	294.0401	0.0217		294.5824
Worker	0.1835	0.1236	1.4173	4.2300e-003	0.4107	2.8800e-003	0.4136	0.1090	2.6600e-003	0.1116		421.3735	421.3735	0.0126		421.6881
<b>Total</b>	<b>0.2209</b>	<b>1.2512</b>	<b>1.7046</b>	<b>6.9700e-003</b>	<b>0.4784</b>	<b>8.4000e-003</b>	<b>0.4868</b>	<b>0.1284</b>	<b>7.9400e-003</b>	<b>0.1364</b>		<b>715.4136</b>	<b>715.4136</b>	<b>0.0343</b>		<b>716.2704</b>

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Summer

**3.3 Building Construction - 2020**

**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	0.4670	9.4389	11.3307	0.0173		0.5571	0.5571		0.5571	0.5571	0.0000	1,631.7530	1,631.7530	0.4913		1,644.0357
<b>Total</b>	<b>0.4670</b>	<b>9.4389</b>	<b>11.3307</b>	<b>0.0173</b>		<b>0.5571</b>	<b>0.5571</b>		<b>0.5571</b>	<b>0.5571</b>	<b>0.0000</b>	<b>1,631.7530</b>	<b>1,631.7530</b>	<b>0.4913</b>		<b>1,644.0357</b>

**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	0.0374	1.1276	0.2873	2.7400e-003	0.0677	5.5200e-003	0.0732	0.0195	5.2800e-003	0.0248		294.0401	294.0401	0.0217		294.5824
Worker	0.1835	0.1236	1.4173	4.2300e-003	0.4107	2.8800e-003	0.4136	0.1090	2.6600e-003	0.1116		421.3735	421.3735	0.0126		421.6881
<b>Total</b>	<b>0.2209</b>	<b>1.2512</b>	<b>1.7046</b>	<b>6.9700e-003</b>	<b>0.4784</b>	<b>8.4000e-003</b>	<b>0.4868</b>	<b>0.1284</b>	<b>7.9400e-003</b>	<b>0.1364</b>		<b>715.4136</b>	<b>715.4136</b>	<b>0.0343</b>		<b>716.2704</b>

**4.0 Operational Detail - Mobile**

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Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122



Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, 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

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, 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					
General Light Industry	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					
General Light Industry	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**

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Summer

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.0198	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.2000e-004
Unmitigated	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>0.0214</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

**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	0.0198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.2000e-004
<b>Total</b>	<b>0.0198</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>		<b>1.2000e-004</b>

**7.0 Water Detail**

## Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Summer

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**7.1 Mitigation Measures Water****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****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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**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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Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Winter

**Miramar Water Treatment Plant Improvements**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.00	1000sqft	0.02	1,000.00	2

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

## Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Winter

Architectural Coating - No architectural coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - There are no coatings for this project.

Landscape Equipment - There is no landscaping for this project.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - EPA waste generation of 4.46 lb/person/day

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Winter

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00



## Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Winter

tblEnergyUse	T24NG	4.34	0.00
tblLandUse	Population	0.00	2.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblSolidWaste	SolidWasteGenerationRate	1.24	1.16
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	50.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	231,250.00	41,600.00

## 2.0 Emissions Summary

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Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, 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	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-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
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>0.0214</b>	<b>0.0000</b>	<b>1.0000e-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>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</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	0.0198	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.2000e-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
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>0.0198</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</b>

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, 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	7.52	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.45	45.45	0.00	0.00	47.83

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/24/2020	8/6/2020	5	10	
2	Building Construction	Building Construction	8/7/2020	10/29/2020	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	50.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Winter

**3.2 Demolition - 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					
Off-Road	1.9167	18.8412	12.3776	0.0210		1.0194	1.0194		0.9537	0.9537		2,021.544 2	2,021.544 2	0.4997		2,034.036 0
<b>Total</b>	<b>1.9167</b>	<b>18.8412</b>	<b>12.3776</b>	<b>0.0210</b>		<b>1.0194</b>	<b>1.0194</b>		<b>0.9537</b>	<b>0.9537</b>		<b>2,021.544 2</b>	<b>2,021.544 2</b>	<b>0.4997</b>		<b>2,034.036 0</b>

**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	0.0416	0.0278	0.2673	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		79.1132	79.1132	2.3800e-003		79.1727
<b>Total</b>	<b>0.0416</b>	<b>0.0278</b>	<b>0.2673</b>	<b>7.9000e-004</b>	<b>0.0822</b>	<b>5.8000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.3000e-004</b>	<b>0.0223</b>		<b>79.1132</b>	<b>79.1132</b>	<b>2.3800e-003</b>		<b>79.1727</b>

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Winter

**3.2 Demolition - 2020**

**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	0.4862	10.3690	13.0734	0.0210		0.5966	0.5966		0.5966	0.5966	0.0000	2,021.544 2	2,021.544 2	0.4997		2,034.036 0
<b>Total</b>	<b>0.4862</b>	<b>10.3690</b>	<b>13.0734</b>	<b>0.0210</b>		<b>0.5966</b>	<b>0.5966</b>		<b>0.5966</b>	<b>0.5966</b>	<b>0.0000</b>	<b>2,021.544 2</b>	<b>2,021.544 2</b>	<b>0.4997</b>		<b>2,034.036 0</b>

**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	0.0416	0.0278	0.2673	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		79.1132	79.1132	2.3800e-003		79.1727
<b>Total</b>	<b>0.0416</b>	<b>0.0278</b>	<b>0.2673</b>	<b>7.9000e-004</b>	<b>0.0822</b>	<b>5.8000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.3000e-004</b>	<b>0.0223</b>		<b>79.1132</b>	<b>79.1132</b>	<b>2.3800e-003</b>		<b>79.1727</b>

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Winter

**3.3 Building Construction - 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					
Off-Road	1.3967	13.0903	10.3300	0.0173		0.6859	0.6859		0.6380	0.6380		1,631.7530	1,631.7530	0.4913		1,644.0357
<b>Total</b>	<b>1.3967</b>	<b>13.0903</b>	<b>10.3300</b>	<b>0.0173</b>		<b>0.6859</b>	<b>0.6859</b>		<b>0.6380</b>	<b>0.6380</b>		<b>1,631.7530</b>	<b>1,631.7530</b>	<b>0.4913</b>		<b>1,644.0357</b>

**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	0.0391	1.1267	0.3188	2.6700e-003	0.0677	5.6200e-003	0.0733	0.0195	5.3800e-003	0.0249		286.4622	286.4622	0.0231		287.0385
Worker	0.2078	0.1388	1.3362	3.9700e-003	0.4107	2.8800e-003	0.4136	0.1090	2.6600e-003	0.1116		395.5660	395.5660	0.0119		395.8637
<b>Total</b>	<b>0.2469</b>	<b>1.2655</b>	<b>1.6550</b>	<b>6.6400e-003</b>	<b>0.4784</b>	<b>8.5000e-003</b>	<b>0.4869</b>	<b>0.1284</b>	<b>8.0400e-003</b>	<b>0.1365</b>		<b>682.0282</b>	<b>682.0282</b>	<b>0.0350</b>		<b>682.9022</b>



Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Winter

**3.3 Building Construction - 2020**

**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	0.4670	9.4389	11.3307	0.0173		0.5571	0.5571		0.5571	0.5571	0.0000	1,631.7530	1,631.7530	0.4913		1,644.0357
<b>Total</b>	<b>0.4670</b>	<b>9.4389</b>	<b>11.3307</b>	<b>0.0173</b>		<b>0.5571</b>	<b>0.5571</b>		<b>0.5571</b>	<b>0.5571</b>	<b>0.0000</b>	<b>1,631.7530</b>	<b>1,631.7530</b>	<b>0.4913</b>		<b>1,644.0357</b>

**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	0.0391	1.1267	0.3188	2.6700e-003	0.0677	5.6200e-003	0.0733	0.0195	5.3800e-003	0.0249		286.4622	286.4622	0.0231		287.0385
Worker	0.2078	0.1388	1.3362	3.9700e-003	0.4107	2.8800e-003	0.4136	0.1090	2.6600e-003	0.1116		395.5660	395.5660	0.0119		395.8637
<b>Total</b>	<b>0.2469</b>	<b>1.2655</b>	<b>1.6550</b>	<b>6.6400e-003</b>	<b>0.4784</b>	<b>8.5000e-003</b>	<b>0.4869</b>	<b>0.1284</b>	<b>8.0400e-003</b>	<b>0.1365</b>		<b>682.0282</b>	<b>682.0282</b>	<b>0.0350</b>		<b>682.9022</b>

**4.0 Operational Detail - Mobile**

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Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, 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

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, 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					
General Light Industry	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					
General Light Industry	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**

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Winter

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.0198	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.2000e-004
Unmitigated	0.0214	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Winter

**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	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
<b>Total</b>	<b>0.0214</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>2.3000e-004</b>

**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	0.0198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-004	1.2000e-004	0.0000		1.2000e-004
<b>Total</b>	<b>0.0198</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>		<b>1.2000e-004</b>

**7.0 Water Detail**

Miramar Water Treatment Plant Improvements - San Diego County APCD Air District, Winter

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**7.1 Mitigation Measures Water****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****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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**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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Morena Pipeline-Open Trench - San Diego County APCD Air District, Annual

**Morena Pipeline-Open Trench  
San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	637.91	1000sqft	14.64	637,908.36	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.



## Morena Pipeline-Open Trench - San Diego County APCD Air District, Annual

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Stationary Sources - User Defined - No stationary sources.

Morena Pipeline-Open Trench - San Diego County APCD Air District, Annual

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.  
 Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	318954	0
tblAreaCoating	Area_Nonresidential_Interior	956862	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorV alue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorV alue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	300.00	200.00

## Morena Pipeline-Open Trench - San Diego County APCD Air District, Annual

tblConstructionPhase	NumDays	20.00	200.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	BuildingSpaceSquareFeet	637,910.00	637,908.36
tblLandUse	LandUseSquareFeet	637,910.00	637,908.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	791.01	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	5,154.00
tblTripsAndVMT	VendorTripNumber	105.00	2.00
tblTripsAndVMT	WorkerTripNumber	25.00	26.00

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tblTripsAndVMT	WorkerTripNumber	268.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	147,516,687.50	0.00

## 2.0 Emissions Summary

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Morena Pipeline-Open Trench - San Diego County APCD Air District, Annual

**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					
2019	0.4862	5.3617	3.1760	6.8800e-003	0.0888	0.2631	0.3519	0.0221	0.2421	0.2643	0.0000	636.1861	636.1861	0.1484	0.0000	639.8970
2020	0.2215	2.2988	1.6895	3.1900e-003	0.0741	0.1175	0.1916	0.0172	0.1081	0.1253	0.0000	281.5465	281.5465	0.0820	0.0000	283.5962
2021	0.0947	0.9215	1.0816	1.7500e-003	0.0142	0.0482	0.0624	3.7600e-003	0.0444	0.0481	0.0000	154.4199	154.4199	0.0463	0.0000	155.5779
<b>Maximum</b>	<b>0.4862</b>	<b>5.3617</b>	<b>3.1760</b>	<b>6.8800e-003</b>	<b>0.0888</b>	<b>0.2631</b>	<b>0.3519</b>	<b>0.0221</b>	<b>0.2421</b>	<b>0.2643</b>	<b>0.0000</b>	<b>636.1861</b>	<b>636.1861</b>	<b>0.1484</b>	<b>0.0000</b>	<b>639.8970</b>

**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					
2019	0.1481	3.1085	3.3496	6.8800e-003	0.0816	0.1299	0.2115	0.0212	0.1298	0.1510	0.0000	636.1856	636.1856	0.1484	0.0000	639.8965
2020	0.0817	1.4871	1.9706	3.1900e-003	0.0669	0.0778	0.1446	0.0163	0.0777	0.0940	0.0000	281.5462	281.5462	0.0820	0.0000	283.5959
2021	0.0454	0.8062	1.2692	1.7500e-003	0.0142	0.0434	0.0575	3.7600e-003	0.0434	0.0471	0.0000	154.4198	154.4198	0.0463	0.0000	155.5778
<b>Maximum</b>	<b>0.1481</b>	<b>3.1085</b>	<b>3.3496</b>	<b>6.8800e-003</b>	<b>0.0816</b>	<b>0.1299</b>	<b>0.2115</b>	<b>0.0212</b>	<b>0.1298</b>	<b>0.1510</b>	<b>0.0000</b>	<b>636.1856</b>	<b>636.1856</b>	<b>0.1484</b>	<b>0.0000</b>	<b>639.8965</b>

## Morena Pipeline-Open Trench - San Diego County APCD Air District, 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
Percent Reduction	65.69	37.06	-10.80	0.00	8.18	41.44	31.72	4.22	36.42	33.25	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	4-2-2019	7-1-2019	1.9337	1.0744
2	7-2-2019	10-1-2019	1.9550	1.0862
3	10-2-2019	1-1-2020	1.9575	1.0900
4	1-2-2020	4-1-2020	0.7007	0.4134
5	4-2-2020	7-1-2020	0.6359	0.3752
6	7-2-2020	10-1-2020	0.6429	0.3793
7	10-2-2020	1-1-2021	0.5273	0.3931
8	1-2-2021	4-1-2021	0.4604	0.3859
9	4-2-2021	7-1-2021	0.4649	0.3896
10	7-2-2021	9-30-2021	0.0920	0.0771
		Highest	1.9575	1.0900

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**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	2.4919	5.0000e-005	5.8800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.4919</b>	<b>5.0000e-005</b>	<b>5.8800e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0114</b>	<b>0.0114</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0122</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	2.4916	3.0000e-005	3.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1400e-003	6.1400e-003	1.0000e-005	0.0000	6.4600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.4916</b>	<b>3.0000e-005</b>	<b>3.4100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.1400e-003</b>	<b>6.1400e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.4600e-003</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.01</b>	<b>40.00</b>	<b>42.01</b>	<b>0.00</b>	<b>0.00</b>	<b>50.00</b>	<b>50.00</b>	<b>0.00</b>	<b>50.00</b>	<b>50.00</b>	<b>0.00</b>	<b>46.14</b>	<b>46.14</b>	<b>66.67</b>	<b>0.00</b>	<b>46.88</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Trenching	Trenching	4/2/2019	1/6/2020	5	200	
2	Building Construction	Building Construction	1/7/2020	10/12/2020	5	200	Pipeline installation and backfill.
3	Paving	Paving	10/13/2020	7/19/2021	5	200	



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**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trenching	Excavators	2	8.00	158	0.38
Trenching	Rubber Tired Dozers	2	8.00	247	0.40
Trenching	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Trenching	Trenchers	2	8.00	78	0.50
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Trenching	10	26.00	0.00	5,154.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	16.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Trenching - 2019**

**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					0.0132	0.0000	0.0132	1.6600e-003	0.0000	1.6600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4499	4.5763	2.8992	4.5600e-003		0.2600	0.2600		0.2392	0.2392	0.0000	409.9353	409.9353	0.1297	0.0000	413.1778
<b>Total</b>	<b>0.4499</b>	<b>4.5763</b>	<b>2.8992</b>	<b>4.5600e-003</b>	<b>0.0132</b>	<b>0.2600</b>	<b>0.2731</b>	<b>1.6600e-003</b>	<b>0.2392</b>	<b>0.2408</b>	<b>0.0000</b>	<b>409.9353</b>	<b>409.9353</b>	<b>0.1297</b>	<b>0.0000</b>	<b>413.1778</b>

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**3.2 Trenching - 2019**

**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	0.0222	0.7739	0.1688	1.9900e-003	0.0439	2.8900e-003	0.0468	0.0120	2.7700e-003	0.0148	0.0000	196.8835	196.8835	0.0178	0.0000	197.3291
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	0.0141	0.0115	0.1079	3.2000e-004	0.0318	2.2000e-004	0.0320	8.4400e-003	2.1000e-004	8.6500e-003	0.0000	29.3673	29.3673	9.1000e-004	0.0000	29.3901
<b>Total</b>	<b>0.0363</b>	<b>0.7854</b>	<b>0.2768</b>	<b>2.3100e-003</b>	<b>0.0757</b>	<b>3.1100e-003</b>	<b>0.0788</b>	<b>0.0205</b>	<b>2.9800e-003</b>	<b>0.0235</b>	<b>0.0000</b>	<b>226.2508</b>	<b>226.2508</b>	<b>0.0187</b>	<b>0.0000</b>	<b>226.7193</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					5.9300e-003	0.0000	5.9300e-003	7.5000e-004	0.0000	7.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1118	2.3232	3.0728	4.5600e-003		0.1268	0.1268		0.1268	0.1268	0.0000	409.9348	409.9348	0.1297	0.0000	413.1773
<b>Total</b>	<b>0.1118</b>	<b>2.3232</b>	<b>3.0728</b>	<b>4.5600e-003</b>	<b>5.9300e-003</b>	<b>0.1268</b>	<b>0.1328</b>	<b>7.5000e-004</b>	<b>0.1268</b>	<b>0.1276</b>	<b>0.0000</b>	<b>409.9348</b>	<b>409.9348</b>	<b>0.1297</b>	<b>0.0000</b>	<b>413.1773</b>

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**3.2 Trenching - 2019**

**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	0.0222	0.7739	0.1688	1.9900e-003	0.0439	2.8900e-003	0.0468	0.0120	2.7700e-003	0.0148	0.0000	196.8835	196.8835	0.0178	0.0000	197.3291
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	0.0141	0.0115	0.1079	3.2000e-004	0.0318	2.2000e-004	0.0320	8.4400e-003	2.1000e-004	8.6500e-003	0.0000	29.3673	29.3673	9.1000e-004	0.0000	29.3901
<b>Total</b>	<b>0.0363</b>	<b>0.7854</b>	<b>0.2768</b>	<b>2.3100e-003</b>	<b>0.0757</b>	<b>3.1100e-003</b>	<b>0.0788</b>	<b>0.0205</b>	<b>2.9800e-003</b>	<b>0.0235</b>	<b>0.0000</b>	<b>226.2508</b>	<b>226.2508</b>	<b>0.0187</b>	<b>0.0000</b>	<b>226.7193</b>

**3.2 Trenching - 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					0.0132	0.0000	0.0132	1.6600e-003	0.0000	1.6600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6500e-003	0.0870	0.0584	9.0000e-005		4.8900e-003	4.8900e-003		4.5000e-003	4.5000e-003	0.0000	8.1858	8.1858	2.6500e-003	0.0000	8.2519
<b>Total</b>	<b>8.6500e-003</b>	<b>0.0870</b>	<b>0.0584</b>	<b>9.0000e-005</b>	<b>0.0132</b>	<b>4.8900e-003</b>	<b>0.0181</b>	<b>1.6600e-003</b>	<b>4.5000e-003</b>	<b>6.1600e-003</b>	<b>0.0000</b>	<b>8.1858</b>	<b>8.1858</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>8.2519</b>

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**3.2 Trenching - 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	4.1000e-004	0.0147	3.3600e-003	4.0000e-005	0.0334	5.0000e-005	0.0334	8.2100e-003	4.0000e-005	8.2600e-003	0.0000	3.9750	3.9750	3.6000e-004	0.0000	3.9840
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	2.7000e-004	2.1000e-004	2.0200e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5804	0.5804	2.0000e-005	0.0000	0.5808
<b>Total</b>	<b>6.8000e-004</b>	<b>0.0149</b>	<b>5.3800e-003</b>	<b>5.0000e-005</b>	<b>0.0340</b>	<b>5.0000e-005</b>	<b>0.0341</b>	<b>8.3800e-003</b>	<b>4.0000e-005</b>	<b>8.4400e-003</b>	<b>0.0000</b>	<b>4.5554</b>	<b>4.5554</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>4.5648</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					5.9300e-003	0.0000	5.9300e-003	7.5000e-004	0.0000	7.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2800e-003	0.0474	0.0627	9.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	8.1857	8.1857	2.6500e-003	0.0000	8.2519
<b>Total</b>	<b>2.2800e-003</b>	<b>0.0474</b>	<b>0.0627</b>	<b>9.0000e-005</b>	<b>5.9300e-003</b>	<b>2.5900e-003</b>	<b>8.5200e-003</b>	<b>7.5000e-004</b>	<b>2.5900e-003</b>	<b>3.3400e-003</b>	<b>0.0000</b>	<b>8.1857</b>	<b>8.1857</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>8.2519</b>

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**3.2 Trenching - 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	4.1000e-004	0.0147	3.3600e-003	4.0000e-005	0.0334	5.0000e-005	0.0334	8.2100e-003	4.0000e-005	8.2600e-003	0.0000	3.9750	3.9750	3.6000e-004	0.0000	3.9840
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	2.7000e-004	2.1000e-004	2.0200e-003	1.0000e-005	6.5000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5804	0.5804	2.0000e-005	0.0000	0.5808
<b>Total</b>	<b>6.8000e-004</b>	<b>0.0149</b>	<b>5.3800e-003</b>	<b>5.0000e-005</b>	<b>0.0340</b>	<b>5.0000e-005</b>	<b>0.0341</b>	<b>8.3800e-003</b>	<b>4.0000e-005</b>	<b>8.4400e-003</b>	<b>0.0000</b>	<b>4.5554</b>	<b>4.5554</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>4.5648</b>

**3.3 Building Construction - 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					
Off-Road	0.1614	1.7588	1.1151	2.0800e-003		0.0904	0.0904		0.0832	0.0832	0.0000	182.8139	182.8139	0.0591	0.0000	184.2920
<b>Total</b>	<b>0.1614</b>	<b>1.7588</b>	<b>1.1151</b>	<b>2.0800e-003</b>		<b>0.0904</b>	<b>0.0904</b>		<b>0.0832</b>	<b>0.0832</b>	<b>0.0000</b>	<b>182.8139</b>	<b>182.8139</b>	<b>0.0591</b>	<b>0.0000</b>	<b>184.2920</b>

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**3.3 Building Construction - 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	7.2000e-004	0.0218	5.7800e-003	5.0000e-005	1.2000e-003	1.0000e-004	1.3000e-003	3.5000e-004	1.0000e-004	4.4000e-004	0.0000	4.8722	4.8722	3.9000e-004	0.0000	4.8818
Worker	8.2900e-003	6.4900e-003	0.0620	2.0000e-004	0.0200	1.4000e-004	0.0201	5.3000e-003	1.3000e-004	5.4300e-003	0.0000	17.8585	17.8585	5.2000e-004	0.0000	17.8714
<b>Total</b>	<b>9.0100e-003</b>	<b>0.0283</b>	<b>0.0678</b>	<b>2.5000e-004</b>	<b>0.0212</b>	<b>2.4000e-004</b>	<b>0.0214</b>	<b>5.6500e-003</b>	<b>2.3000e-004</b>	<b>5.8700e-003</b>	<b>0.0000</b>	<b>22.7307</b>	<b>22.7307</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>22.7533</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	0.0511	1.0671	1.3151	2.0800e-003		0.0572	0.0572		0.0572	0.0572	0.0000	182.8137	182.8137	0.0591	0.0000	184.2918
<b>Total</b>	<b>0.0511</b>	<b>1.0671</b>	<b>1.3151</b>	<b>2.0800e-003</b>		<b>0.0572</b>	<b>0.0572</b>		<b>0.0572</b>	<b>0.0572</b>	<b>0.0000</b>	<b>182.8137</b>	<b>182.8137</b>	<b>0.0591</b>	<b>0.0000</b>	<b>184.2918</b>

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**3.3 Building Construction - 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	7.2000e-004	0.0218	5.7800e-003	5.0000e-005	1.2000e-003	1.0000e-004	1.3000e-003	3.5000e-004	1.0000e-004	4.4000e-004	0.0000	4.8722	4.8722	3.9000e-004	0.0000	4.8818
Worker	8.2900e-003	6.4900e-003	0.0620	2.0000e-004	0.0200	1.4000e-004	0.0201	5.3000e-003	1.3000e-004	5.4300e-003	0.0000	17.8585	17.8585	5.2000e-004	0.0000	17.8714
<b>Total</b>	<b>9.0100e-003</b>	<b>0.0283</b>	<b>0.0678</b>	<b>2.5000e-004</b>	<b>0.0212</b>	<b>2.4000e-004</b>	<b>0.0214</b>	<b>5.6500e-003</b>	<b>2.3000e-004</b>	<b>5.8700e-003</b>	<b>0.0000</b>	<b>22.7307</b>	<b>22.7307</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>22.7533</b>

**3.4 Paving - 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					
Off-Road	0.0393	0.4079	0.4249	6.6000e-004		0.0218	0.0218		0.0201	0.0201	0.0000	58.0818	58.0818	0.0188	0.0000	58.5515
Paving	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>0.0393</b>	<b>0.4079</b>	<b>0.4249</b>	<b>6.6000e-004</b>		<b>0.0218</b>	<b>0.0218</b>		<b>0.0201</b>	<b>0.0201</b>	<b>0.0000</b>	<b>58.0818</b>	<b>58.0818</b>	<b>0.0188</b>	<b>0.0000</b>	<b>58.5515</b>



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**3.4 Paving - 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	2.4000e-003	1.8800e-003	0.0180	6.0000e-005	5.7900e-003	4.0000e-005	5.8300e-003	1.5400e-003	4.0000e-005	1.5700e-003	0.0000	5.1790	5.1790	1.5000e-004	0.0000	5.1827
<b>Total</b>	<b>2.4000e-003</b>	<b>1.8800e-003</b>	<b>0.0180</b>	<b>6.0000e-005</b>	<b>5.7900e-003</b>	<b>4.0000e-005</b>	<b>5.8300e-003</b>	<b>1.5400e-003</b>	<b>4.0000e-005</b>	<b>1.5700e-003</b>	<b>0.0000</b>	<b>5.1790</b>	<b>5.1790</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>5.1827</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	0.0163	0.3276	0.5016	6.6000e-004		0.0177	0.0177		0.0177	0.0177	0.0000	58.0818	58.0818	0.0188	0.0000	58.5514
Paving	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>0.0163</b>	<b>0.3276</b>	<b>0.5016</b>	<b>6.6000e-004</b>		<b>0.0177</b>	<b>0.0177</b>		<b>0.0177</b>	<b>0.0177</b>	<b>0.0000</b>	<b>58.0818</b>	<b>58.0818</b>	<b>0.0188</b>	<b>0.0000</b>	<b>58.5514</b>

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**3.4 Paving - 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	2.4000e-003	1.8800e-003	0.0180	6.0000e-005	5.7900e-003	4.0000e-005	5.8300e-003	1.5400e-003	4.0000e-005	1.5700e-003	0.0000	5.1790	5.1790	1.5000e-004	0.0000	5.1827
<b>Total</b>	<b>2.4000e-003</b>	<b>1.8800e-003</b>	<b>0.0180</b>	<b>6.0000e-005</b>	<b>5.7900e-003</b>	<b>4.0000e-005</b>	<b>5.8300e-003</b>	<b>1.5400e-003</b>	<b>4.0000e-005</b>	<b>1.5700e-003</b>	<b>0.0000</b>	<b>5.1790</b>	<b>5.1790</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>5.1827</b>

**3.4 Paving - 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	0.0891	0.9173	1.0404	1.6200e-003		0.0481	0.0481		0.0443	0.0443	0.0000	142.1667	142.1667	0.0460	0.0000	143.3162
Paving	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>0.0891</b>	<b>0.9173</b>	<b>1.0404</b>	<b>1.6200e-003</b>		<b>0.0481</b>	<b>0.0481</b>		<b>0.0443</b>	<b>0.0443</b>	<b>0.0000</b>	<b>142.1667</b>	<b>142.1667</b>	<b>0.0460</b>	<b>0.0000</b>	<b>143.3162</b>

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**3.4 Paving - 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	5.5600e-003	4.1900e-003	0.0412	1.4000e-004	0.0142	1.0000e-004	0.0143	3.7600e-003	9.0000e-005	3.8500e-003	0.0000	12.2532	12.2532	3.4000e-004	0.0000	12.2617
<b>Total</b>	<b>5.5600e-003</b>	<b>4.1900e-003</b>	<b>0.0412</b>	<b>1.4000e-004</b>	<b>0.0142</b>	<b>1.0000e-004</b>	<b>0.0143</b>	<b>3.7600e-003</b>	<b>9.0000e-005</b>	<b>3.8500e-003</b>	<b>0.0000</b>	<b>12.2532</b>	<b>12.2532</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>12.2617</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	0.0398	0.8020	1.2280	1.6200e-003		0.0433	0.0433		0.0433	0.0433	0.0000	142.1665	142.1665	0.0460	0.0000	143.3160
Paving	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>0.0398</b>	<b>0.8020</b>	<b>1.2280</b>	<b>1.6200e-003</b>		<b>0.0433</b>	<b>0.0433</b>		<b>0.0433</b>	<b>0.0433</b>	<b>0.0000</b>	<b>142.1665</b>	<b>142.1665</b>	<b>0.0460</b>	<b>0.0000</b>	<b>143.3160</b>

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**3.4 Paving - 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	5.5600e-003	4.1900e-003	0.0412	1.4000e-004	0.0142	1.0000e-004	0.0143	3.7600e-003	9.0000e-005	3.8500e-003	0.0000	12.2532	12.2532	3.4000e-004	0.0000	12.2617
<b>Total</b>	<b>5.5600e-003</b>	<b>4.1900e-003</b>	<b>0.0412</b>	<b>1.4000e-004</b>	<b>0.0142</b>	<b>1.0000e-004</b>	<b>0.0143</b>	<b>3.7600e-003</b>	<b>9.0000e-005</b>	<b>3.8500e-003</b>	<b>0.0000</b>	<b>12.2532</b>	<b>12.2532</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>12.2617</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N



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**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr					
General Light Industry	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	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>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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>

## Morena Pipeline-Open Trench - San Diego County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed



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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	2.4916	3.0000e-005	3.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1400e-003	6.1400e-003	1.0000e-005	0.0000	6.4600e-003
Unmitigated	2.4919	5.0000e-005	5.8800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122

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	2.4914					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.5000e-004	5.0000e-005	5.8800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0114	0.0114	3.0000e-005	0.0000	0.0122
<b>Total</b>	<b>2.4919</b>	<b>5.0000e-005</b>	<b>5.8800e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0114</b>	<b>0.0114</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0122</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4914					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3000e-004	3.0000e-005	3.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1400e-003	6.1400e-003	1.0000e-005	0.0000	6.4600e-003
<b>Total</b>	<b>2.4916</b>	<b>3.0000e-005</b>	<b>3.4100e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.1400e-003</b>	<b>6.1400e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.4600e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Morena Pipeline-Open Trench - San Diego County APCD Air District, 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			
General Light Industry	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>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	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

Morena Pipeline-Open Trench - San Diego County APCD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	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			
General Light Industry	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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Morena Pipeline-Open Trench - San Diego County APCD Air District, 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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Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**Morena Pipeline-Open Trench**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	637.91	1000sqft	14.64	637,908.36	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Stationary Sources - User Defined - No stationary sources.



Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.  
 Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	318954	0
tblAreaCoating	Area_Nonresidential_Interior	956862	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorV alue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorV alue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	300.00	200.00

## Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

tblConstructionPhase	NumDays	20.00	200.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	BuildingSpaceSquareFeet	637,910.00	637,908.36
tblLandUse	LandUseSquareFeet	637,910.00	637,908.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	791.01	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	5,154.00
tblTripsAndVMT	VendorTripNumber	105.00	2.00
tblTripsAndVMT	WorkerTripNumber	25.00	26.00

## Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

tblTripsAndVMT	WorkerTripNumber	268.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	147,516,687.50	0.00

## 2.0 Emissions Summary

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Morena Pipeline-Open Trench - San Diego County APCD Air District, 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					
2019	4.9555	54.5431	32.4372	0.0705	0.9211	2.6841	3.6052	0.2298	2.4705	2.7002	0.0000	7,189.821 6	7,189.821 6	1.6671	0.0000	7,231.498 5
2020	4.6624	50.7879	31.9068	0.0701	17.6088	2.4698	20.0787	4.3259	2.2731	6.5989	0.0000	7,055.884 3	7,055.884 3	1.6634	0.0000	7,097.468 1
2021	1.3324	12.9726	15.2785	0.0248	0.2044	0.6791	0.8835	0.0542	0.6248	0.6790	0.0000	2,407.928 7	2,407.928 7	0.7195	0.0000	2,425.914 7
<b>Maximum</b>	<b>4.9555</b>	<b>54.5431</b>	<b>32.4372</b>	<b>0.0705</b>	<b>17.6088</b>	<b>2.6841</b>	<b>20.0787</b>	<b>4.3259</b>	<b>2.4705</b>	<b>6.5989</b>	<b>0.0000</b>	<b>7,189.821 6</b>	<b>7,189.821 6</b>	<b>1.6671</b>	<b>0.0000</b>	<b>7,231.498 5</b>

**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					
2019	1.5063	31.5521	34.2093	0.0705	0.8486	1.3256	2.1743	0.2207	1.3242	1.5448	0.0000	7,189.821 6	7,189.821 6	1.6671	0.0000	7,231.498 5
2020	1.4772	30.9902	34.0720	0.0701	17.5364	1.3193	18.8557	4.3167	1.3182	5.6349	0.0000	7,055.884 3	7,055.884 3	1.6634	0.0000	7,097.468 1
2021	0.6378	11.3487	17.9209	0.0248	0.2044	0.6107	0.8151	0.0542	0.6106	0.6648	0.0000	2,407.928 7	2,407.928 7	0.7195	0.0000	2,425.914 7
<b>Maximum</b>	<b>1.5063</b>	<b>31.5521</b>	<b>34.2093</b>	<b>0.0705</b>	<b>17.5364</b>	<b>1.3256</b>	<b>18.8557</b>	<b>4.3167</b>	<b>1.3242</b>	<b>5.6349</b>	<b>0.0000</b>	<b>7,189.821 6</b>	<b>7,189.821 6</b>	<b>1.6671</b>	<b>0.0000</b>	<b>7,231.498 5</b>

## Morena Pipeline-Open Trench - San Diego County APCD Air District, 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	66.93	37.54	-8.26	0.00	0.77	44.19	11.08	0.40	39.40	21.38	0.00	0.00	0.00	0.00	0.00	0.00

Morena Pipeline-Open Trench - San Diego County APCD Air District, 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	13.6574	6.0000e-004	0.0654	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1396	0.1396	3.7000e-004		0.1489
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>13.6574</b>	<b>6.0000e-004</b>	<b>0.0654</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>2.3000e-004</b>	<b>2.3000e-004</b>		<b>0.1396</b>	<b>0.1396</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1489</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	13.6538	3.3000e-004	0.0379	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0752	0.0752	1.6000e-004		0.0792
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>13.6538</b>	<b>3.3000e-004</b>	<b>0.0379</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>0.0752</b>	<b>0.0752</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0792</b>

## Morena Pipeline-Open Trench - San Diego County APCD Air District, 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	0.03	45.00	42.03	0.00	0.00	56.52	56.52	0.00	56.52	56.52	0.00	46.11	46.11	56.76	0.00	46.83

### 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	Trenching	Trenching	4/2/2019	1/6/2020	5	200	
2	Building Construction	Building Construction	1/7/2020	10/12/2020	5	200	Pipeline installation and backfill.
3	Paving	Paving	10/13/2020	7/19/2021	5	200	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trenching	Excavators	2	8.00	158	0.38
Trenching	Rubber Tired Dozers	2	8.00	247	0.40
Trenching	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Trenching	Trenchers	2	8.00	78	0.50
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Trenching	10	26.00	0.00	5,154.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	16.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads



Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.2 Trenching - 2019**

**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					0.1317	0.0000	0.1317	0.0166	0.0000	0.0166			0.0000			0.0000
Off-Road	4.5905	46.6967	29.5835	0.0465		2.6526	2.6526		2.4404	2.4404		4,610.9827	4,610.9827	1.4589		4,647.4543
<b>Total</b>	<b>4.5905</b>	<b>46.6967</b>	<b>29.5835</b>	<b>0.0465</b>	<b>0.1317</b>	<b>2.6526</b>	<b>2.7844</b>	<b>0.0166</b>	<b>2.4404</b>	<b>2.4570</b>		<b>4,610.9827</b>	<b>4,610.9827</b>	<b>1.4589</b>		<b>4,647.4543</b>

**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	0.2237	7.7406	1.6709	0.0205	0.4573	0.0292	0.4865	0.1251	0.0280	0.1531		2,230.3232	2,230.3232	0.1974		2,235.2575
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	0.1413	0.1058	1.1828	3.5000e-003	0.3321	2.2800e-003	0.3344	0.0881	2.1000e-003	0.0902		348.5157	348.5157	0.0108		348.7866
<b>Total</b>	<b>0.3650</b>	<b>7.8464</b>	<b>2.8537</b>	<b>0.0240</b>	<b>0.7894</b>	<b>0.0315</b>	<b>0.8209</b>	<b>0.2132</b>	<b>0.0301</b>	<b>0.2432</b>		<b>2,578.8389</b>	<b>2,578.8389</b>	<b>0.2082</b>		<b>2,584.0442</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.2 Trenching - 2019**

**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					0.0593	0.0000	0.0593	7.4600e-003	0.0000	7.4600e-003			0.0000			0.0000
Off-Road	1.1413	23.7057	31.3555	0.0465		1.2942	1.2942		1.2942	1.2942	0.0000	4,610.9827	4,610.9827	1.4589		4,647.4543
<b>Total</b>	<b>1.1413</b>	<b>23.7057</b>	<b>31.3555</b>	<b>0.0465</b>	<b>0.0593</b>	<b>1.2942</b>	<b>1.3534</b>	<b>7.4600e-003</b>	<b>1.2942</b>	<b>1.3016</b>	<b>0.0000</b>	<b>4,610.9827</b>	<b>4,610.9827</b>	<b>1.4589</b>		<b>4,647.4543</b>

**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	0.2237	7.7406	1.6709	0.0205	0.4573	0.0292	0.4865	0.1251	0.0280	0.1531		2,230.3232	2,230.3232	0.1974		2,235.2575
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	0.1413	0.1058	1.1828	3.5000e-003	0.3321	2.2800e-003	0.3344	0.0881	2.1000e-003	0.0902		348.5157	348.5157	0.0108		348.7866
<b>Total</b>	<b>0.3650</b>	<b>7.8464</b>	<b>2.8537</b>	<b>0.0240</b>	<b>0.7894</b>	<b>0.0315</b>	<b>0.8209</b>	<b>0.2132</b>	<b>0.0301</b>	<b>0.2432</b>		<b>2,578.8389</b>	<b>2,578.8389</b>	<b>0.2082</b>		<b>2,584.0442</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.2 Trenching - 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					0.1317	0.0000	0.1317	0.0166	0.0000	0.0166			0.0000			0.0000
Off-Road	4.3264	43.5035	29.1902	0.0466		2.4447	2.4447		2.2491	2.2491		4,511.6201	4,511.6201	1.4592		4,548.0988
<b>Total</b>	<b>4.3264</b>	<b>43.5035</b>	<b>29.1902</b>	<b>0.0466</b>	<b>0.1317</b>	<b>2.4447</b>	<b>2.5764</b>	<b>0.0166</b>	<b>2.2491</b>	<b>2.2657</b>		<b>4,511.6201</b>	<b>4,511.6201</b>	<b>1.4592</b>		<b>4,548.0988</b>

**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	0.2037	7.1889	1.6322	0.0202	17.1450	0.0229	17.1679	4.2212	0.0220	4.2431		2,206.7538	2,206.7538	0.1944		2,211.6134
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	0.1322	0.0955	1.0843	3.3900e-003	0.3321	2.2400e-003	0.3343	0.0881	2.0700e-003	0.0901		337.5104	337.5104	9.8200e-003		337.7559
<b>Total</b>	<b>0.3359</b>	<b>7.2845</b>	<b>2.7165</b>	<b>0.0236</b>	<b>17.4771</b>	<b>0.0252</b>	<b>17.5023</b>	<b>4.3093</b>	<b>0.0240</b>	<b>4.3333</b>		<b>2,544.2642</b>	<b>2,544.2642</b>	<b>0.2042</b>		<b>2,549.3693</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.2 Trenching - 2020**

**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					0.0593	0.0000	0.0593	7.4600e-003	0.0000	7.4600e-003			0.0000			0.0000
Off-Road	1.1413	23.7057	31.3555	0.0466		1.2942	1.2942		1.2942	1.2942	0.0000	4,511.6201	4,511.6201	1.4592		4,548.0988
<b>Total</b>	<b>1.1413</b>	<b>23.7057</b>	<b>31.3555</b>	<b>0.0466</b>	<b>0.0593</b>	<b>1.2942</b>	<b>1.3534</b>	<b>7.4600e-003</b>	<b>1.2942</b>	<b>1.3016</b>	<b>0.0000</b>	<b>4,511.6201</b>	<b>4,511.6201</b>	<b>1.4592</b>		<b>4,548.0988</b>

**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	0.2037	7.1889	1.6322	0.0202	17.1450	0.0229	17.1679	4.2212	0.0220	4.2431		2,206.7538	2,206.7538	0.1944		2,211.6134
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	0.1322	0.0955	1.0843	3.3900e-003	0.3321	2.2400e-003	0.3343	0.0881	2.0700e-003	0.0901		337.5104	337.5104	9.8200e-003		337.7559
<b>Total</b>	<b>0.3359</b>	<b>7.2845</b>	<b>2.7165</b>	<b>0.0236</b>	<b>17.4771</b>	<b>0.0252</b>	<b>17.5023</b>	<b>4.3093</b>	<b>0.0240</b>	<b>4.3333</b>		<b>2,544.2642</b>	<b>2,544.2642</b>	<b>0.2042</b>		<b>2,549.3693</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.3 Building Construction - 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					
Off-Road	1.6138	17.5884	11.1507	0.0208		0.9041	0.9041		0.8318	0.8318		2,015.1779	2,015.1779	0.6518		2,031.4717
<b>Total</b>	<b>1.6138</b>	<b>17.5884</b>	<b>11.1507</b>	<b>0.0208</b>		<b>0.9041</b>	<b>0.9041</b>		<b>0.8318</b>	<b>0.8318</b>		<b>2,015.1779</b>	<b>2,015.1779</b>	<b>0.6518</b>		<b>2,031.4717</b>

**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	7.0300e-003	0.2158	0.0547	5.1000e-004	0.0123	1.0000e-003	0.0133	3.5300e-003	9.6000e-004	4.4900e-003		54.3434	54.3434	4.1300e-003		54.4466
Worker	0.0814	0.0588	0.6673	2.0800e-003	0.2044	1.3800e-003	0.2058	0.0542	1.2700e-003	0.0555		207.6987	207.6987	6.0400e-003		207.8498
<b>Total</b>	<b>0.0884</b>	<b>0.2746</b>	<b>0.7219</b>	<b>2.5900e-003</b>	<b>0.2166</b>	<b>2.3800e-003</b>	<b>0.2190</b>	<b>0.0577</b>	<b>2.2300e-003</b>	<b>0.0600</b>		<b>262.0422</b>	<b>262.0422</b>	<b>0.0102</b>		<b>262.2964</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.3 Building Construction - 2020**

**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	0.5108	10.6713	13.1511	0.0208		0.5716	0.5716		0.5716	0.5716	0.0000	2,015.1779	2,015.1779	0.6518		2,031.4717
<b>Total</b>	<b>0.5108</b>	<b>10.6713</b>	<b>13.1511</b>	<b>0.0208</b>		<b>0.5716</b>	<b>0.5716</b>		<b>0.5716</b>	<b>0.5716</b>	<b>0.0000</b>	<b>2,015.1779</b>	<b>2,015.1779</b>	<b>0.6518</b>		<b>2,031.4717</b>

**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	7.0300e-003	0.2158	0.0547	5.1000e-004	0.0123	1.0000e-003	0.0133	3.5300e-003	9.6000e-004	4.4900e-003		54.3434	54.3434	4.1300e-003		54.4466
Worker	0.0814	0.0588	0.6673	2.0800e-003	0.2044	1.3800e-003	0.2058	0.0542	1.2700e-003	0.0555		207.6987	207.6987	6.0400e-003		207.8498
<b>Total</b>	<b>0.0884</b>	<b>0.2746</b>	<b>0.7219</b>	<b>2.5900e-003</b>	<b>0.2166</b>	<b>2.3800e-003</b>	<b>0.2190</b>	<b>0.0577</b>	<b>2.2300e-003</b>	<b>0.0600</b>		<b>262.0422</b>	<b>262.0422</b>	<b>0.0102</b>		<b>262.2964</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.4 Paving - 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					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3566</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>		<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

**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	0.0814	0.0588	0.6673	2.0800e-003	0.2044	1.3800e-003	0.2058	0.0542	1.2700e-003	0.0555		207.6987	207.6987	6.0400e-003		207.8498
<b>Total</b>	<b>0.0814</b>	<b>0.0588</b>	<b>0.6673</b>	<b>2.0800e-003</b>	<b>0.2044</b>	<b>1.3800e-003</b>	<b>0.2058</b>	<b>0.0542</b>	<b>1.2700e-003</b>	<b>0.0555</b>		<b>207.6987</b>	<b>207.6987</b>	<b>6.0400e-003</b>		<b>207.8498</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.4 Paving - 2020**

**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	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5609</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.6093</b>	<b>0.6093</b>		<b>0.6093</b>	<b>0.6093</b>	<b>0.0000</b>	<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

**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	0.0814	0.0588	0.6673	2.0800e-003	0.2044	1.3800e-003	0.2058	0.0542	1.2700e-003	0.0555		207.6987	207.6987	6.0400e-003		207.8498
<b>Total</b>	<b>0.0814</b>	<b>0.0588</b>	<b>0.6673</b>	<b>2.0800e-003</b>	<b>0.2044</b>	<b>1.3800e-003</b>	<b>0.2058</b>	<b>0.0542</b>	<b>1.2700e-003</b>	<b>0.0555</b>		<b>207.6987</b>	<b>207.6987</b>	<b>6.0400e-003</b>		<b>207.8498</b>



Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.4 Paving - 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2556</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

**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	0.0768	0.0535	0.6252	2.0100e-003	0.2044	1.3600e-003	0.2057	0.0542	1.2500e-003	0.0555		200.7178	200.7178	5.5900e-003		200.8575
<b>Total</b>	<b>0.0768</b>	<b>0.0535</b>	<b>0.6252</b>	<b>2.0100e-003</b>	<b>0.2044</b>	<b>1.3600e-003</b>	<b>0.2057</b>	<b>0.0542</b>	<b>1.2500e-003</b>	<b>0.0555</b>		<b>200.7178</b>	<b>200.7178</b>	<b>5.5900e-003</b>		<b>200.8575</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.4 Paving - 2021**

**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	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5609</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.6093</b>	<b>0.6093</b>		<b>0.6093</b>	<b>0.6093</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

**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	0.0768	0.0535	0.6252	2.0100e-003	0.2044	1.3600e-003	0.2057	0.0542	1.2500e-003	0.0555		200.7178	200.7178	5.5900e-003		200.8575
<b>Total</b>	<b>0.0768</b>	<b>0.0535</b>	<b>0.6252</b>	<b>2.0100e-003</b>	<b>0.2044</b>	<b>1.3600e-003</b>	<b>0.2057</b>	<b>0.0542</b>	<b>1.2500e-003</b>	<b>0.0555</b>		<b>200.7178</b>	<b>200.7178</b>	<b>5.5900e-003</b>		<b>200.8575</b>

**4.0 Operational Detail - Mobile**

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

Morena Pipeline-Open Trench - San Diego County APCD Air District, 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

Morena Pipeline-Open Trench - San Diego County APCD Air District, 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					
General Light Industry	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					
General Light Industry	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**

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	13.6538	3.3000e-004	0.0379	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0752	0.0752	1.6000e-004		0.0792
Unmitigated	13.6574	6.0000e-004	0.0654	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1396	0.1396	3.7000e-004		0.1489

Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.6512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.1100e-003	6.0000e-004	0.0654	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1396	0.1396	3.7000e-004		0.1489
<b>Total</b>	<b>13.6574</b>	<b>6.0000e-004</b>	<b>0.0654</b>	<b>0.0000</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>		<b>0.1396</b>	<b>0.1396</b>	<b>3.7000e-004</b>		<b>0.1489</b>

**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	13.6512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5900e-003	3.3000e-004	0.0379	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0752	0.0752	1.6000e-004		0.0792
<b>Total</b>	<b>13.6538</b>	<b>3.3000e-004</b>	<b>0.0379</b>	<b>0.0000</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>0.0752</b>	<b>0.0752</b>	<b>1.6000e-004</b>		<b>0.0792</b>

**7.0 Water Detail**

## Morena Pipeline-Open Trench - San Diego County APCD Air District, Summer

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**7.1 Mitigation Measures Water****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****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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**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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Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**Morena Pipeline-Open Trench**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	637.91	1000sqft	14.64	637,908.36	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Stationary Sources - User Defined - No stationary sources.

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.  
 Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	318954	0
tblAreaCoating	Area_Nonresidential_Interior	956862	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorV alue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorV alue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	300.00	200.00

## Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

tblConstructionPhase	NumDays	20.00	200.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	BuildingSpaceSquareFeet	637,910.00	637,908.36
tblLandUse	LandUseSquareFeet	637,910.00	637,908.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	791.01	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	5,154.00
tblTripsAndVMT	VendorTripNumber	105.00	2.00
tblTripsAndVMT	WorkerTripNumber	25.00	26.00

## Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

tblTripsAndVMT	WorkerTripNumber	268.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	147,516,687.50	0.00

## 2.0 Emissions Summary

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Morena Pipeline-Open Trench - San Diego County APCD Air District, 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					
2019	4.9841	54.6354	32.4689	0.0699	0.9211	2.6848	3.6059	0.2298	2.4711	2.7009	0.0000	7,130.809 9	7,130.809 9	1.6736	0.0000	7,172.649 1
2020	4.6891	50.8687	31.9316	0.0696	17.6088	2.4703	20.0792	4.3259	2.2736	6.5994	0.0000	6,997.217 9	6,997.217 9	1.6694	0.0000	7,038.952 8
2021	1.3448	12.9791	15.2291	0.0247	0.2044	0.6791	0.8835	0.0542	0.6248	0.6790	0.0000	2,395.551 5	2,395.551 5	0.7191	0.0000	2,413.528 6
<b>Maximum</b>	<b>4.9841</b>	<b>54.6354</b>	<b>32.4689</b>	<b>0.0699</b>	<b>17.6088</b>	<b>2.6848</b>	<b>20.0792</b>	<b>4.3259</b>	<b>2.4711</b>	<b>6.5994</b>	<b>0.0000</b>	<b>7,130.809 9</b>	<b>7,130.809 9</b>	<b>1.6736</b>	<b>0.0000</b>	<b>7,172.649 1</b>

**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					
2019	1.5348	31.6444	34.2409	0.0699	0.8486	1.3263	2.1750	0.2207	1.3249	1.5455	0.0000	7,130.809 9	7,130.809 9	1.6736	0.0000	7,172.649 1
2020	1.5040	31.0710	34.0969	0.0696	17.5364	1.3198	18.8562	4.3167	1.3186	5.6353	0.0000	6,997.217 9	6,997.217 9	1.6694	0.0000	7,038.952 8
2021	0.6502	11.3552	17.8716	0.0247	0.2044	0.6107	0.8151	0.0542	0.6106	0.6648	0.0000	2,395.551 5	2,395.551 5	0.7191	0.0000	2,413.528 6
<b>Maximum</b>	<b>1.5348</b>	<b>31.6444</b>	<b>34.2409</b>	<b>0.0699</b>	<b>17.5364</b>	<b>1.3263</b>	<b>18.8562</b>	<b>4.3167</b>	<b>1.3249</b>	<b>5.6353</b>	<b>0.0000</b>	<b>7,130.809 9</b>	<b>7,130.809 9</b>	<b>1.6736</b>	<b>0.0000</b>	<b>7,172.649 1</b>

## Morena Pipeline-Open Trench - San Diego County APCD Air District, 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	66.52	37.48	-8.26	0.00	0.77	44.18	11.08	0.40	39.40	21.38	0.00	0.00	0.00	0.00	0.00	0.00

Morena Pipeline-Open Trench - San Diego County APCD Air District, 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	13.6574	6.0000e-004	0.0654	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1396	0.1396	3.7000e-004		0.1489
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>13.6574</b>	<b>6.0000e-004</b>	<b>0.0654</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>2.3000e-004</b>	<b>2.3000e-004</b>		<b>0.1396</b>	<b>0.1396</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>0.1489</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	13.6538	3.3000e-004	0.0379	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0752	0.0752	1.6000e-004		0.0792
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>13.6538</b>	<b>3.3000e-004</b>	<b>0.0379</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>0.0752</b>	<b>0.0752</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0792</b>



Morena Pipeline-Open Trench - San Diego County APCD Air District, 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	0.03	45.00	42.03	0.00	0.00	56.52	56.52	0.00	56.52	56.52	0.00	46.11	46.11	56.76	0.00	46.83

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Trenching	Trenching	4/2/2019	1/6/2020	5	200	
2	Building Construction	Building Construction	1/7/2020	10/12/2020	5	200	Pipeline installation and backfill.
3	Paving	Paving	10/13/2020	7/19/2021	5	200	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trenching	Excavators	2	8.00	158	0.38
Trenching	Rubber Tired Dozers	2	8.00	247	0.40
Trenching	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Trenching	Trenchers	2	8.00	78	0.50
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Trenching	10	26.00	0.00	5,154.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	16.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.2 Trenching - 2019**

**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					0.1317	0.0000	0.1317	0.0166	0.0000	0.0166			0.0000			0.0000
Off-Road	4.5905	46.6967	29.5835	0.0465		2.6526	2.6526		2.4404	2.4404		4,610.9827	4,610.9827	1.4589		4,647.4543
<b>Total</b>	<b>4.5905</b>	<b>46.6967</b>	<b>29.5835</b>	<b>0.0465</b>	<b>0.1317</b>	<b>2.6526</b>	<b>2.7844</b>	<b>0.0166</b>	<b>2.4404</b>	<b>2.4570</b>		<b>4,610.9827</b>	<b>4,610.9827</b>	<b>1.4589</b>		<b>4,647.4543</b>

**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	0.2300	7.8199	1.7907	0.0201	0.4573	0.0299	0.4872	0.1251	0.0286	0.1537		2,192.7921	2,192.7921	0.2045		2,197.9051
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	0.1636	0.1187	1.0948	3.2800e-003	0.3321	2.2800e-003	0.3344	0.0881	2.1000e-003	0.0902		327.0352	327.0352	0.0102		327.2897
<b>Total</b>	<b>0.3936</b>	<b>7.9387</b>	<b>2.8854</b>	<b>0.0234</b>	<b>0.7894</b>	<b>0.0322</b>	<b>0.8215</b>	<b>0.2132</b>	<b>0.0307</b>	<b>0.2439</b>		<b>2,519.8272</b>	<b>2,519.8272</b>	<b>0.2147</b>		<b>2,525.1948</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.2 Trenching - 2019**

**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					0.0593	0.0000	0.0593	7.4600e-003	0.0000	7.4600e-003			0.0000			0.0000
Off-Road	1.1413	23.7057	31.3555	0.0465		1.2942	1.2942		1.2942	1.2942	0.0000	4,610.9827	4,610.9827	1.4589		4,647.4543
<b>Total</b>	<b>1.1413</b>	<b>23.7057</b>	<b>31.3555</b>	<b>0.0465</b>	<b>0.0593</b>	<b>1.2942</b>	<b>1.3534</b>	<b>7.4600e-003</b>	<b>1.2942</b>	<b>1.3016</b>	<b>0.0000</b>	<b>4,610.9827</b>	<b>4,610.9827</b>	<b>1.4589</b>		<b>4,647.4543</b>

**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	0.2300	7.8199	1.7907	0.0201	0.4573	0.0299	0.4872	0.1251	0.0286	0.1537		2,192.7921	2,192.7921	0.2045		2,197.9051
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	0.1636	0.1187	1.0948	3.2800e-003	0.3321	2.2800e-003	0.3344	0.0881	2.1000e-003	0.0902		327.0352	327.0352	0.0102		327.2897
<b>Total</b>	<b>0.3936</b>	<b>7.9387</b>	<b>2.8854</b>	<b>0.0234</b>	<b>0.7894</b>	<b>0.0322</b>	<b>0.8215</b>	<b>0.2132</b>	<b>0.0307</b>	<b>0.2439</b>		<b>2,519.8272</b>	<b>2,519.8272</b>	<b>0.2147</b>		<b>2,525.1948</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.2 Trenching - 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					0.1317	0.0000	0.1317	0.0166	0.0000	0.0166			0.0000			0.0000
Off-Road	4.3264	43.5035	29.1902	0.0466		2.4447	2.4447		2.2491	2.2491		4,511.6201	4,511.6201	1.4592		4,548.0988
<b>Total</b>	<b>4.3264</b>	<b>43.5035</b>	<b>29.1902</b>	<b>0.0466</b>	<b>0.1317</b>	<b>2.4447</b>	<b>2.5764</b>	<b>0.0166</b>	<b>2.2491</b>	<b>2.2657</b>		<b>4,511.6201</b>	<b>4,511.6201</b>	<b>1.4592</b>		<b>4,548.0988</b>

**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	0.2093	7.2581	1.7401	0.0198	17.1450	0.0234	17.1684	4.2212	0.0224	4.2436		2,168.8945	2,168.8945	0.2010		2,173.9205
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	0.1533	0.1072	1.0013	3.1800e-003	0.3321	2.2400e-003	0.3343	0.0881	2.0700e-003	0.0901		316.7034	316.7034	9.2100e-003		316.9335
<b>Total</b>	<b>0.3627</b>	<b>7.3653</b>	<b>2.7414</b>	<b>0.0230</b>	<b>17.4771</b>	<b>0.0257</b>	<b>17.5028</b>	<b>4.3093</b>	<b>0.0245</b>	<b>4.3337</b>		<b>2,485.5979</b>	<b>2,485.5979</b>	<b>0.2103</b>		<b>2,490.8541</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.2 Trenching - 2020**

**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					0.0593	0.0000	0.0593	7.4600e-003	0.0000	7.4600e-003			0.0000			0.0000
Off-Road	1.1413	23.7057	31.3555	0.0466		1.2942	1.2942		1.2942	1.2942	0.0000	4,511.6201	4,511.6201	1.4592		4,548.0988
<b>Total</b>	<b>1.1413</b>	<b>23.7057</b>	<b>31.3555</b>	<b>0.0466</b>	<b>0.0593</b>	<b>1.2942</b>	<b>1.3534</b>	<b>7.4600e-003</b>	<b>1.2942</b>	<b>1.3016</b>	<b>0.0000</b>	<b>4,511.6201</b>	<b>4,511.6201</b>	<b>1.4592</b>		<b>4,548.0988</b>

**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	0.2093	7.2581	1.7401	0.0198	17.1450	0.0234	17.1684	4.2212	0.0224	4.2436		2,168.8945	2,168.8945	0.2010		2,173.9205
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	0.1533	0.1072	1.0013	3.1800e-003	0.3321	2.2400e-003	0.3343	0.0881	2.0700e-003	0.0901		316.7034	316.7034	9.2100e-003		316.9335
<b>Total</b>	<b>0.3627</b>	<b>7.3653</b>	<b>2.7414</b>	<b>0.0230</b>	<b>17.4771</b>	<b>0.0257</b>	<b>17.5028</b>	<b>4.3093</b>	<b>0.0245</b>	<b>4.3337</b>		<b>2,485.5979</b>	<b>2,485.5979</b>	<b>0.2103</b>		<b>2,490.8541</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.3 Building Construction - 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					
Off-Road	1.6138	17.5884	11.1507	0.0208		0.9041	0.9041		0.8318	0.8318		2,015.1779	2,015.1779	0.6518		2,031.4717
<b>Total</b>	<b>1.6138</b>	<b>17.5884</b>	<b>11.1507</b>	<b>0.0208</b>		<b>0.9041</b>	<b>0.9041</b>		<b>0.8318</b>	<b>0.8318</b>		<b>2,015.1779</b>	<b>2,015.1779</b>	<b>0.6518</b>		<b>2,031.4717</b>

**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	7.3800e-003	0.2153	0.0610	4.9000e-004	0.0123	1.0300e-003	0.0133	3.5300e-003	9.8000e-004	4.5100e-003		52.8279	52.8279	4.4000e-003		52.9379
Worker	0.0944	0.0660	0.6162	1.9600e-003	0.2044	1.3800e-003	0.2058	0.0542	1.2700e-003	0.0555		194.8944	194.8944	5.6700e-003		195.0360
<b>Total</b>	<b>0.1017</b>	<b>0.2812</b>	<b>0.6772</b>	<b>2.4500e-003</b>	<b>0.2166</b>	<b>2.4100e-003</b>	<b>0.2190</b>	<b>0.0577</b>	<b>2.2500e-003</b>	<b>0.0600</b>		<b>247.7223</b>	<b>247.7223</b>	<b>0.0101</b>		<b>247.9739</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.3 Building Construction - 2020**

**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	0.5108	10.6713	13.1511	0.0208		0.5716	0.5716		0.5716	0.5716	0.0000	2,015.1779	2,015.1779	0.6518		2,031.4717
<b>Total</b>	<b>0.5108</b>	<b>10.6713</b>	<b>13.1511</b>	<b>0.0208</b>		<b>0.5716</b>	<b>0.5716</b>		<b>0.5716</b>	<b>0.5716</b>	<b>0.0000</b>	<b>2,015.1779</b>	<b>2,015.1779</b>	<b>0.6518</b>		<b>2,031.4717</b>

**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	7.3800e-003	0.2153	0.0610	4.9000e-004	0.0123	1.0300e-003	0.0133	3.5300e-003	9.8000e-004	4.5100e-003		52.8279	52.8279	4.4000e-003		52.9379
Worker	0.0944	0.0660	0.6162	1.9600e-003	0.2044	1.3800e-003	0.2058	0.0542	1.2700e-003	0.0555		194.8944	194.8944	5.6700e-003		195.0360
<b>Total</b>	<b>0.1017</b>	<b>0.2812</b>	<b>0.6772</b>	<b>2.4500e-003</b>	<b>0.2166</b>	<b>2.4100e-003</b>	<b>0.2190</b>	<b>0.0577</b>	<b>2.2500e-003</b>	<b>0.0600</b>		<b>247.7223</b>	<b>247.7223</b>	<b>0.0101</b>		<b>247.9739</b>



Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.4 Paving - 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					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3566</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>		<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

**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	0.0944	0.0660	0.6162	1.9600e-003	0.2044	1.3800e-003	0.2058	0.0542	1.2700e-003	0.0555		194.8944	194.8944	5.6700e-003		195.0360
<b>Total</b>	<b>0.0944</b>	<b>0.0660</b>	<b>0.6162</b>	<b>1.9600e-003</b>	<b>0.2044</b>	<b>1.3800e-003</b>	<b>0.2058</b>	<b>0.0542</b>	<b>1.2700e-003</b>	<b>0.0555</b>		<b>194.8944</b>	<b>194.8944</b>	<b>5.6700e-003</b>		<b>195.0360</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.4 Paving - 2020**

**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	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5609</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.6093</b>	<b>0.6093</b>		<b>0.6093</b>	<b>0.6093</b>	<b>0.0000</b>	<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

**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	0.0944	0.0660	0.6162	1.9600e-003	0.2044	1.3800e-003	0.2058	0.0542	1.2700e-003	0.0555		194.8944	194.8944	5.6700e-003		195.0360
<b>Total</b>	<b>0.0944</b>	<b>0.0660</b>	<b>0.6162</b>	<b>1.9600e-003</b>	<b>0.2044</b>	<b>1.3800e-003</b>	<b>0.2058</b>	<b>0.0542</b>	<b>1.2700e-003</b>	<b>0.0555</b>		<b>194.8944</b>	<b>194.8944</b>	<b>5.6700e-003</b>		<b>195.0360</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.4 Paving - 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2556</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

**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	0.0892	0.0600	0.5759	1.8900e-003	0.2044	1.3600e-003	0.2057	0.0542	1.2500e-003	0.0555		188.3406	188.3406	5.2300e-003		188.4714
<b>Total</b>	<b>0.0892</b>	<b>0.0600</b>	<b>0.5759</b>	<b>1.8900e-003</b>	<b>0.2044</b>	<b>1.3600e-003</b>	<b>0.2057</b>	<b>0.0542</b>	<b>1.2500e-003</b>	<b>0.0555</b>		<b>188.3406</b>	<b>188.3406</b>	<b>5.2300e-003</b>		<b>188.4714</b>

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.4 Paving - 2021**

**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	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5609</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.6093</b>	<b>0.6093</b>		<b>0.6093</b>	<b>0.6093</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

**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	0.0892	0.0600	0.5759	1.8900e-003	0.2044	1.3600e-003	0.2057	0.0542	1.2500e-003	0.0555		188.3406	188.3406	5.2300e-003		188.4714
<b>Total</b>	<b>0.0892</b>	<b>0.0600</b>	<b>0.5759</b>	<b>1.8900e-003</b>	<b>0.2044</b>	<b>1.3600e-003</b>	<b>0.2057</b>	<b>0.0542</b>	<b>1.2500e-003</b>	<b>0.0555</b>		<b>188.3406</b>	<b>188.3406</b>	<b>5.2300e-003</b>		<b>188.4714</b>

**4.0 Operational Detail - Mobile**

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

Morena Pipeline-Open Trench - San Diego County APCD Air District, 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

Morena Pipeline-Open Trench - San Diego County APCD Air District, 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					
General Light Industry	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					
General Light Industry	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**

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	13.6538	3.3000e-004	0.0379	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0752	0.0752	1.6000e-004		0.0792
Unmitigated	13.6574	6.0000e-004	0.0654	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1396	0.1396	3.7000e-004		0.1489



Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

**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	13.6512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.1100e-003	6.0000e-004	0.0654	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004		0.1396	0.1396	3.7000e-004		0.1489
<b>Total</b>	<b>13.6574</b>	<b>6.0000e-004</b>	<b>0.0654</b>	<b>0.0000</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>		<b>2.3000e-004</b>	<b>2.3000e-004</b>		<b>0.1396</b>	<b>0.1396</b>	<b>3.7000e-004</b>		<b>0.1489</b>

**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	13.6512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5900e-003	3.3000e-004	0.0379	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0752	0.0752	1.6000e-004		0.0792
<b>Total</b>	<b>13.6538</b>	<b>3.3000e-004</b>	<b>0.0379</b>	<b>0.0000</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>0.0752</b>	<b>0.0752</b>	<b>1.6000e-004</b>		<b>0.0792</b>

**7.0 Water Detail**

Morena Pipeline-Open Trench - San Diego County APCD Air District, Winter

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**7.1 Mitigation Measures Water****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****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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**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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Morena Pipeline-Trenchless - San Diego County APCD Air District, Annual

**Morena Pipeline-Trenchless**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	3.45	1000sqft	0.08	3,452.97	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

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Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

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Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1726	0
tblAreaCoating	Area_Nonresidential_Interior	5179	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1.00	25.00
tblConstructionPhase	NumDays	1.00	150.00
tblConstructionPhase	NumDays	1.00	150.00
tblEnergyUse	LightingElect	2.91	0.00

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tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	BuildingSpaceSquareFeet	3,450.00	3,452.97
tblLandUse	LandUseSquareFeet	3,450.00	3,452.97
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblOffRoadEquipment	PhaseName		Site Preparation at Portal Sites
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblProjectCharacteristics	OperationalYear	2018	2022

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tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	4.28	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	13.00	26.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	797,812.50	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					
2019	0.2324	2.1901	1.4981	2.5500e-003	0.0167	0.1216	0.1383	4.4500e-003	0.1135	0.1180	0.0000	227.5014	227.5014	0.0569	0.0000	228.9244
2020	0.1910	1.7175	1.3363	2.2900e-003	0.0256	0.0973	0.1229	6.8100e-003	0.0908	0.0976	0.0000	201.0499	201.0499	0.0477	0.0000	202.2425
2021	0.0710	0.6361	0.4991	8.8000e-004	9.5800e-003	0.0346	0.0442	2.5500e-003	0.0323	0.0349	0.0000	77.1053	77.1053	0.0179	0.0000	77.5517
<b>Maximum</b>	<b>0.2324</b>	<b>2.1901</b>	<b>1.4981</b>	<b>2.5500e-003</b>	<b>0.0256</b>	<b>0.1216</b>	<b>0.1383</b>	<b>6.8100e-003</b>	<b>0.1135</b>	<b>0.1180</b>	<b>0.0000</b>	<b>227.5014</b>	<b>227.5014</b>	<b>0.0569</b>	<b>0.0000</b>	<b>228.9244</b>

**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					
2019	0.0635	1.1744	1.5803	2.5500e-003	0.0167	0.0641	0.0808	4.4500e-003	0.0641	0.0685	0.0000	227.5011	227.5011	0.0569	0.0000	228.9241
2020	0.0579	1.0204	1.4065	2.2900e-003	0.0256	0.0580	0.0835	6.8100e-003	0.0579	0.0648	0.0000	201.0497	201.0497	0.0477	0.0000	202.2422
2021	0.0219	0.3880	0.5317	8.8000e-004	9.5800e-003	0.0215	0.0310	2.5500e-003	0.0215	0.0240	0.0000	77.1052	77.1052	0.0179	0.0000	77.5516
<b>Maximum</b>	<b>0.0635</b>	<b>1.1744</b>	<b>1.5803</b>	<b>2.5500e-003</b>	<b>0.0256</b>	<b>0.0641</b>	<b>0.0835</b>	<b>6.8100e-003</b>	<b>0.0641</b>	<b>0.0685</b>	<b>0.0000</b>	<b>227.5011</b>	<b>227.5011</b>	<b>0.0569</b>	<b>0.0000</b>	<b>228.9241</b>



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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	71.02	43.16	-5.55	0.00	0.00	43.39	36.02	0.00	39.38	37.21	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	4-2-2019	7-1-2019	0.2961	0.1596
		Highest	0.2961	0.1596

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	0.0135	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	0.0000	7.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0135</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-005</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	0.0125	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0125</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</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	7.49	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00	0.00	0.00	57.14

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation at Portal Sites	Site Preparation	4/2/2019	5/6/2019	5	25	
2	Portal Excavation	Site Preparation	5/7/2019	12/2/2019	5	150	
3	Site Restoration	Site Preparation	12/3/2019	6/29/2020	5	150	
4	Tunnel Excavation	Trenching	6/30/2020	3/22/2021	5	190	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation at Portal Sites	Graders	1	8.00	187	0.41
Site Preparation at Portal Sites	Scrapers	1	8.00	367	0.48
Site Preparation at Portal Sites	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Portal Excavation	Excavators	1	8.00	158	0.38
Portal Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Portal Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Trenchers	1	8.00	78	0.50
Site Restoration	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tunnel Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Tunnel Excavation	Excavators	1	8.00	158	0.38
Tunnel Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Tunnel Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tunnel Excavation	Trenchers	1	8.00	78	0.50

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation at Portal Sites	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Portal Excavation	5	16.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Restoration	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Tunnel Excavation	5	26.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Site Preparation at Portal Sites - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.2729	0.1525	3.1000e-004		0.0109	0.0109		0.0100	0.0100	0.0000	27.9524	27.9524	8.8400e-003	0.0000	28.1735
<b>Total</b>	<b>0.0223</b>	<b>0.2729</b>	<b>0.1525</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>0.0109</b>	<b>0.0109</b>	<b>0.0000</b>	<b>0.0100</b>	<b>0.0100</b>	<b>0.0000</b>	<b>27.9524</b>	<b>27.9524</b>	<b>8.8400e-003</b>	<b>0.0000</b>	<b>28.1735</b>

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**3.2 Site Preparation at Portal Sites - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	4.5000e-004	4.2400e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.1526	1.1526	4.0000e-005	0.0000	1.1535
<b>Total</b>	<b>5.5000e-004</b>	<b>4.5000e-004</b>	<b>4.2400e-003</b>	<b>1.0000e-005</b>	<b>1.2500e-003</b>	<b>1.0000e-005</b>	<b>1.2600e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.1526</b>	<b>1.1526</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1535</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6400e-003	0.1510	0.1742	3.1000e-004		6.4200e-003	6.4200e-003		6.4200e-003	6.4200e-003	0.0000	27.9524	27.9524	8.8400e-003	0.0000	28.1735
<b>Total</b>	<b>7.6400e-003</b>	<b>0.1510</b>	<b>0.1742</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>6.4200e-003</b>	<b>6.4200e-003</b>	<b>0.0000</b>	<b>6.4200e-003</b>	<b>6.4200e-003</b>	<b>0.0000</b>	<b>27.9524</b>	<b>27.9524</b>	<b>8.8400e-003</b>	<b>0.0000</b>	<b>28.1735</b>

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**3.2 Site Preparation at Portal Sites - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	4.5000e-004	4.2400e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.1526	1.1526	4.0000e-005	0.0000	1.1535
<b>Total</b>	<b>5.5000e-004</b>	<b>4.5000e-004</b>	<b>4.2400e-003</b>	<b>1.0000e-005</b>	<b>1.2500e-003</b>	<b>1.0000e-005</b>	<b>1.2600e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.1526</b>	<b>1.1526</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1535</b>

**3.3 Portal Excavation - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2002	1.8866	1.2646	2.0400e-003		0.1089	0.1089		0.1019	0.1019	0.0000	181.1521	181.1521	0.0467	0.0000	182.3188
<b>Total</b>	<b>0.2002</b>	<b>1.8866</b>	<b>1.2646</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>0.1089</b>	<b>0.1089</b>	<b>0.0000</b>	<b>0.1019</b>	<b>0.1019</b>	<b>0.0000</b>	<b>181.1521</b>	<b>181.1521</b>	<b>0.0467</b>	<b>0.0000</b>	<b>182.3188</b>

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**3.3 Portal Excavation - 2019**

**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	6.6400e-003	5.3900e-003	0.0508	1.5000e-004	0.0150	1.1000e-004	0.0151	3.9800e-003	1.0000e-004	4.0700e-003	0.0000	13.8308	13.8308	4.3000e-004	0.0000	13.8415
<b>Total</b>	<b>6.6400e-003</b>	<b>5.3900e-003</b>	<b>0.0508</b>	<b>1.5000e-004</b>	<b>0.0150</b>	<b>1.1000e-004</b>	<b>0.0151</b>	<b>3.9800e-003</b>	<b>1.0000e-004</b>	<b>4.0700e-003</b>	<b>0.0000</b>	<b>13.8308</b>	<b>13.8308</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>13.8415</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0476	0.9992	1.3247	2.0400e-003		0.0563	0.0563		0.0563	0.0563	0.0000	181.1519	181.1519	0.0467	0.0000	182.3186
<b>Total</b>	<b>0.0476</b>	<b>0.9992</b>	<b>1.3247</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>0.0563</b>	<b>0.0563</b>	<b>0.0000</b>	<b>0.0563</b>	<b>0.0563</b>	<b>0.0000</b>	<b>181.1519</b>	<b>181.1519</b>	<b>0.0467</b>	<b>0.0000</b>	<b>182.3186</b>



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**3.3 Portal Excavation - 2019**

**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	6.6400e-003	5.3900e-003	0.0508	1.5000e-004	0.0150	1.1000e-004	0.0151	3.9800e-003	1.0000e-004	4.0700e-003	0.0000	13.8308	13.8308	4.3000e-004	0.0000	13.8415
<b>Total</b>	<b>6.6400e-003</b>	<b>5.3900e-003</b>	<b>0.0508</b>	<b>1.5000e-004</b>	<b>0.0150</b>	<b>1.1000e-004</b>	<b>0.0151</b>	<b>3.9800e-003</b>	<b>1.0000e-004</b>	<b>4.0700e-003</b>	<b>0.0000</b>	<b>13.8308</b>	<b>13.8308</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>13.8415</b>

**3.4 Site Restoration - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4400e-003	0.0245	0.0242	3.0000e-005		1.6400e-003	1.6400e-003		1.5100e-003	1.5100e-003	0.0000	2.9295	2.9295	9.3000e-004	0.0000	2.9526
<b>Total</b>	<b>2.4400e-003</b>	<b>0.0245</b>	<b>0.0242</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.6400e-003</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>1.5100e-003</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>2.9295</b>	<b>2.9295</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>2.9526</b>

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**3.4 Site Restoration - 2019**

**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	2.3000e-004	1.9000e-004	1.7800e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4841	0.4841	2.0000e-005	0.0000	0.4845
<b>Total</b>	<b>2.3000e-004</b>	<b>1.9000e-004</b>	<b>1.7800e-003</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>5.3000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4841</b>	<b>0.4841</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4845</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0000e-004	0.0182	0.0246	3.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	2.9295	2.9295	9.3000e-004	0.0000	2.9526
<b>Total</b>	<b>8.0000e-004</b>	<b>0.0182</b>	<b>0.0246</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.2800e-003</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>1.2800e-003</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>2.9295</b>	<b>2.9295</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>2.9526</b>

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**3.4 Site Restoration - 2019**

**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	2.3000e-004	1.9000e-004	1.7800e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4841	0.4841	2.0000e-005	0.0000	0.4845
<b>Total</b>	<b>2.3000e-004</b>	<b>1.9000e-004</b>	<b>1.7800e-003</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>5.3000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4841</b>	<b>0.4841</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4845</b>

**3.4 Site Restoration - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0135	0.1358	0.1470	2.0000e-004		8.5900e-003	8.5900e-003		7.9000e-003	7.9000e-003	0.0000	17.5990	17.5990	5.6900e-003	0.0000	17.7413
<b>Total</b>	<b>0.0135</b>	<b>0.1358</b>	<b>0.1470</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>8.5900e-003</b>	<b>8.5900e-003</b>	<b>0.0000</b>	<b>7.9000e-003</b>	<b>7.9000e-003</b>	<b>0.0000</b>	<b>17.5990</b>	<b>17.5990</b>	<b>5.6900e-003</b>	<b>0.0000</b>	<b>17.7413</b>

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**3.4 Site Restoration - 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	1.3400e-003	1.0500e-003	0.0100	3.0000e-005	3.2200e-003	2.0000e-005	3.2400e-003	8.5000e-004	2.0000e-005	8.8000e-004	0.0000	2.8797	2.8797	8.0000e-005	0.0000	2.8818
<b>Total</b>	<b>1.3400e-003</b>	<b>1.0500e-003</b>	<b>0.0100</b>	<b>3.0000e-005</b>	<b>3.2200e-003</b>	<b>2.0000e-005</b>	<b>3.2400e-003</b>	<b>8.5000e-004</b>	<b>2.0000e-005</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>2.8797</b>	<b>2.8797</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.8818</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9000e-003	0.1119	0.1511	2.0000e-004		7.8400e-003	7.8400e-003		7.8400e-003	7.8400e-003	0.0000	17.5990	17.5990	5.6900e-003	0.0000	17.7413
<b>Total</b>	<b>4.9000e-003</b>	<b>0.1119</b>	<b>0.1511</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>7.8400e-003</b>	<b>7.8400e-003</b>	<b>0.0000</b>	<b>7.8400e-003</b>	<b>7.8400e-003</b>	<b>0.0000</b>	<b>17.5990</b>	<b>17.5990</b>	<b>5.6900e-003</b>	<b>0.0000</b>	<b>17.7413</b>

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**3.4 Site Restoration - 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	1.3400e-003	1.0500e-003	0.0100	3.0000e-005	3.2200e-003	2.0000e-005	3.2400e-003	8.5000e-004	2.0000e-005	8.8000e-004	0.0000	2.8797	2.8797	8.0000e-005	0.0000	2.8818
<b>Total</b>	<b>1.3400e-003</b>	<b>1.0500e-003</b>	<b>0.0100</b>	<b>3.0000e-005</b>	<b>3.2200e-003</b>	<b>2.0000e-005</b>	<b>3.2400e-003</b>	<b>8.5000e-004</b>	<b>2.0000e-005</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>2.8797</b>	<b>2.8797</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.8818</b>

**3.5 Tunnel Excavation - 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					
Off-Road	0.1667	1.5591	1.1084	1.8100e-003		0.0885	0.0885		0.0827	0.0827	0.0000	158.0330	158.0330	0.0411	0.0000	159.0607
<b>Total</b>	<b>0.1667</b>	<b>1.5591</b>	<b>1.1084</b>	<b>1.8100e-003</b>		<b>0.0885</b>	<b>0.0885</b>		<b>0.0827</b>	<b>0.0827</b>	<b>0.0000</b>	<b>158.0330</b>	<b>158.0330</b>	<b>0.0411</b>	<b>0.0000</b>	<b>159.0607</b>

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**3.5 Tunnel Excavation - 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	4.8000e-004	0.0145	3.8400e-003	3.0000e-005	8.0000e-004	7.0000e-005	8.7000e-004	2.3000e-004	6.0000e-005	3.0000e-004	0.0000	3.2400	3.2400	2.6000e-004	0.0000	3.2464
Worker	8.9600e-003	7.0100e-003	0.0670	2.1000e-004	0.0216	1.5000e-004	0.0217	5.7300e-003	1.4000e-004	5.8600e-003	0.0000	19.2983	19.2983	5.6000e-004	0.0000	19.3123
<b>Total</b>	<b>9.4400e-003</b>	<b>0.0215</b>	<b>0.0709</b>	<b>2.4000e-004</b>	<b>0.0224</b>	<b>2.2000e-004</b>	<b>0.0226</b>	<b>5.9600e-003</b>	<b>2.0000e-004</b>	<b>6.1600e-003</b>	<b>0.0000</b>	<b>22.5383</b>	<b>22.5383</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>22.5587</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	0.0422	0.8859	1.1745	1.8100e-003		0.0499	0.0499		0.0499	0.0499	0.0000	158.0328	158.0328	0.0411	0.0000	159.0605
<b>Total</b>	<b>0.0422</b>	<b>0.8859</b>	<b>1.1745</b>	<b>1.8100e-003</b>		<b>0.0499</b>	<b>0.0499</b>		<b>0.0499</b>	<b>0.0499</b>	<b>0.0000</b>	<b>158.0328</b>	<b>158.0328</b>	<b>0.0411</b>	<b>0.0000</b>	<b>159.0605</b>

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**3.5 Tunnel Excavation - 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	4.8000e-004	0.0145	3.8400e-003	3.0000e-005	8.0000e-004	7.0000e-005	8.7000e-004	2.3000e-004	6.0000e-005	3.0000e-004	0.0000	3.2400	3.2400	2.6000e-004	0.0000	3.2464
Worker	8.9600e-003	7.0100e-003	0.0670	2.1000e-004	0.0216	1.5000e-004	0.0217	5.7300e-003	1.4000e-004	5.8600e-003	0.0000	19.2983	19.2983	5.6000e-004	0.0000	19.3123
<b>Total</b>	<b>9.4400e-003</b>	<b>0.0215</b>	<b>0.0709</b>	<b>2.4000e-004</b>	<b>0.0224</b>	<b>2.2000e-004</b>	<b>0.0226</b>	<b>5.9600e-003</b>	<b>2.0000e-004</b>	<b>6.1600e-003</b>	<b>0.0000</b>	<b>22.5383</b>	<b>22.5383</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>22.5587</b>

**3.5 Tunnel Excavation - 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	0.0672	0.6278	0.4707	7.7000e-004		0.0345	0.0345		0.0323	0.0323	0.0000	67.7368	67.7368	0.0175	0.0000	68.1751
<b>Total</b>	<b>0.0672</b>	<b>0.6278</b>	<b>0.4707</b>	<b>7.7000e-004</b>		<b>0.0345</b>	<b>0.0345</b>		<b>0.0323</b>	<b>0.0323</b>	<b>0.0000</b>	<b>67.7368</b>	<b>67.7368</b>	<b>0.0175</b>	<b>0.0000</b>	<b>68.1751</b>

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**3.5 Tunnel Excavation - 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	1.7000e-004	5.6200e-003	1.4900e-003	1.0000e-005	3.4000e-004	1.0000e-005	3.5000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3758	1.3758	1.1000e-004	0.0000	1.3785
Worker	3.6300e-003	2.7300e-003	0.0269	9.0000e-005	9.2400e-003	6.0000e-005	9.3000e-003	2.4500e-003	6.0000e-005	2.5100e-003	0.0000	7.9926	7.9926	2.2000e-004	0.0000	7.9982
<b>Total</b>	<b>3.8000e-003</b>	<b>8.3500e-003</b>	<b>0.0284</b>	<b>1.0000e-004</b>	<b>9.5800e-003</b>	<b>7.0000e-005</b>	<b>9.6500e-003</b>	<b>2.5500e-003</b>	<b>7.0000e-005</b>	<b>2.6200e-003</b>	<b>0.0000</b>	<b>9.3685</b>	<b>9.3685</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>9.3767</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	0.0181	0.3797	0.5034	7.7000e-004		0.0214	0.0214		0.0214	0.0214	0.0000	67.7367	67.7367	0.0175	0.0000	68.1750
<b>Total</b>	<b>0.0181</b>	<b>0.3797</b>	<b>0.5034</b>	<b>7.7000e-004</b>		<b>0.0214</b>	<b>0.0214</b>		<b>0.0214</b>	<b>0.0214</b>	<b>0.0000</b>	<b>67.7367</b>	<b>67.7367</b>	<b>0.0175</b>	<b>0.0000</b>	<b>68.1750</b>



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**3.5 Tunnel Excavation - 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	1.7000e-004	5.6200e-003	1.4900e-003	1.0000e-005	3.4000e-004	1.0000e-005	3.5000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3758	1.3758	1.1000e-004	0.0000	1.3785
Worker	3.6300e-003	2.7300e-003	0.0269	9.0000e-005	9.2400e-003	6.0000e-005	9.3000e-003	2.4500e-003	6.0000e-005	2.5100e-003	0.0000	7.9926	7.9926	2.2000e-004	0.0000	7.9982
<b>Total</b>	<b>3.8000e-003</b>	<b>8.3500e-003</b>	<b>0.0284</b>	<b>1.0000e-004</b>	<b>9.5800e-003</b>	<b>7.0000e-005</b>	<b>9.6500e-003</b>	<b>2.5500e-003</b>	<b>7.0000e-005</b>	<b>2.6200e-003</b>	<b>0.0000</b>	<b>9.3685</b>	<b>9.3685</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>9.3767</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

5.0 Energy Detail

Historical Energy Use: N



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**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr					
General Light Industry	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	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>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

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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	0.0125	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0135	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	0.0000	7.0000e-005

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	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	0.0000	7.0000e-005
<b>Total</b>	<b>0.0135</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-005</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	0.0125					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>0.0125</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Morena Pipeline-Trenchless - San Diego County APCD Air District, 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			
General Light Industry	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			
General Light Industry	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

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	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			
General Light Industry	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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**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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Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**Morena Pipeline-Trenchless**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	3.45	1000sqft	0.08	3,452.97	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1726	0
tblAreaCoating	Area_Nonresidential_Interior	5179	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorV alue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorV alue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1.00	25.00
tblConstructionPhase	NumDays	1.00	150.00
tblConstructionPhase	NumDays	1.00	150.00
tblEnergyUse	LightingElect	2.91	0.00

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	BuildingSpaceSquareFeet	3,450.00	3,452.97
tblLandUse	LandUseSquareFeet	3,450.00	3,452.97
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblOffRoadEquipment	PhaseName		Site Preparation at Portal Sites
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblProjectCharacteristics	OperationalYear	2018	2022

## Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	4.28	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	13.00	26.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	797,812.50	0.00

## 2.0 Emissions Summary

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Morena Pipeline-Trenchless - San Diego County APCD Air District, 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					
2019	2.7563	25.2202	17.5891	0.0293	0.2044	1.4535	1.6579	0.0542	1.3598	1.4140	0.0000	2,876.9508	2,876.9508	0.7832	0.0000	2,894.2655
2020	2.6461	23.7571	17.8066	0.0311	0.3444	1.3333	1.6777	0.0916	1.2460	1.3376	0.0000	3,011.4255	3,011.4255	0.6954	0.0000	3,028.8094
2021	2.4880	22.3102	17.5809	0.0310	0.3444	1.2144	1.5588	0.0916	1.1339	1.2255	0.0000	2,999.9096	2,999.9096	0.6911	0.0000	3,017.1856
<b>Maximum</b>	<b>2.7563</b>	<b>25.2202</b>	<b>17.8066</b>	<b>0.0311</b>	<b>0.3444</b>	<b>1.4535</b>	<b>1.6777</b>	<b>0.0916</b>	<b>1.3598</b>	<b>1.4140</b>	<b>0.0000</b>	<b>3,011.4255</b>	<b>3,011.4255</b>	<b>0.7832</b>	<b>0.0000</b>	<b>3,028.8094</b>

**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					
2019	0.7220	13.3875	18.3901	0.0293	0.2044	0.7515	0.9558	0.0542	0.7514	0.8055	0.0000	2,876.9508	2,876.9508	0.7832	0.0000	2,894.2655
2020	0.7743	13.6338	18.8012	0.0311	0.3444	0.7533	1.0976	0.0916	0.7531	0.8447	0.0000	3,011.4255	3,011.4255	0.6954	0.0000	3,028.8094
2021	0.7656	13.6050	18.7276	0.0310	0.3444	0.7527	1.0970	0.0916	0.7525	0.8441	0.0000	2,999.9096	2,999.9096	0.6911	0.0000	3,017.1856
<b>Maximum</b>	<b>0.7743</b>	<b>13.6338</b>	<b>18.8012</b>	<b>0.0311</b>	<b>0.3444</b>	<b>0.7533</b>	<b>1.0976</b>	<b>0.0916</b>	<b>0.7531</b>	<b>0.8447</b>	<b>0.0000</b>	<b>3,011.4255</b>	<b>3,011.4255</b>	<b>0.7832</b>	<b>0.0000</b>	<b>3,028.8094</b>

## Morena Pipeline-Trenchless - San Diego County APCD Air District, 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	71.33	43.01	-5.55	0.00	0.00	43.58	35.63	0.00	39.65	37.28	0.00	0.00	0.00	0.00	0.00	0.00

Morena Pipeline-Trenchless - San Diego County APCD Air District, 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	0.0739	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		7.6000e-004	7.6000e-004	0.0000		8.0000e-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
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>0.0739</b>	<b>0.0000</b>	<b>3.5000e-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>7.6000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-004</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	0.0684	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.3000e-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
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>0.0684</b>	<b>0.0000</b>	<b>2.0000e-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>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.3000e-004</b>

## Morena Pipeline-Trenchless - San Diego County APCD Air District, 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	7.51	0.00	42.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.05	46.05	0.00	0.00	46.25

### 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	Site Preparation at Portal Sites	Site Preparation	4/2/2019	5/6/2019	5	25	
2	Portal Excavation	Site Preparation	5/7/2019	12/2/2019	5	150	
3	Site Restoration	Site Preparation	12/3/2019	6/29/2020	5	150	
4	Tunnel Excavation	Trenching	6/30/2020	3/22/2021	5	190	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation at Portal Sites	Graders	1	8.00	187	0.41
Site Preparation at Portal Sites	Scrapers	1	8.00	367	0.48
Site Preparation at Portal Sites	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Portal Excavation	Excavators	1	8.00	158	0.38
Portal Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Portal Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Trenchers	1	8.00	78	0.50
Site Restoration	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tunnel Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Tunnel Excavation	Excavators	1	8.00	158	0.38
Tunnel Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Tunnel Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tunnel Excavation	Trenchers	1	8.00	78	0.50

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation at Portal Sites	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Portal Excavation	5	16.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Restoration	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Tunnel Excavation	5	26.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Site Preparation at Portal Sites - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.7848	21.8308	12.2022	0.0249		0.8732	0.8732		0.8034	0.8034		2,464.9835	2,464.9835	0.7799		2,484.4809
<b>Total</b>	<b>1.7848</b>	<b>21.8308</b>	<b>12.2022</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.8732</b>	<b>0.8732</b>	<b>0.0000</b>	<b>0.8034</b>	<b>0.8034</b>		<b>2,464.9835</b>	<b>2,464.9835</b>	<b>0.7799</b>		<b>2,484.4809</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.2 Site Preparation at Portal Sites - 2019**

**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	0.0435	0.0326	0.3640	1.0800e-003	0.1022	7.0000e-004	0.1029	0.0271	6.5000e-004	0.0277		107.2356	107.2356	3.3300e-003		107.3190
<b>Total</b>	<b>0.0435</b>	<b>0.0326</b>	<b>0.3640</b>	<b>1.0800e-003</b>	<b>0.1022</b>	<b>7.0000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.5000e-004</b>	<b>0.0277</b>		<b>107.2356</b>	<b>107.2356</b>	<b>3.3300e-003</b>		<b>107.3190</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6111	12.0796	13.9359	0.0249		0.5139	0.5139		0.5139	0.5139	0.0000	2,464.9835	2,464.9835	0.7799		2,484.4809
<b>Total</b>	<b>0.6111</b>	<b>12.0796</b>	<b>13.9359</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.5139</b>	<b>0.5139</b>	<b>0.0000</b>	<b>0.5139</b>	<b>0.5139</b>	<b>0.0000</b>	<b>2,464.9835</b>	<b>2,464.9835</b>	<b>0.7799</b>		<b>2,484.4809</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.2 Site Preparation at Portal Sites - 2019**

**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	0.0435	0.0326	0.3640	1.0800e-003	0.1022	7.0000e-004	0.1029	0.0271	6.5000e-004	0.0277		107.2356	107.2356	3.3300e-003		107.3190
<b>Total</b>	<b>0.0435</b>	<b>0.0326</b>	<b>0.3640</b>	<b>1.0800e-003</b>	<b>0.1022</b>	<b>7.0000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.5000e-004</b>	<b>0.0277</b>		<b>107.2356</b>	<b>107.2356</b>	<b>3.3300e-003</b>		<b>107.3190</b>

**3.3 Portal Excavation - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6693	25.1551	16.8612	0.0272		1.4521	1.4521		1.3585	1.3585		2,662.4796	2,662.4796	0.6859		2,679.6276
<b>Total</b>	<b>2.6693</b>	<b>25.1551</b>	<b>16.8612</b>	<b>0.0272</b>	<b>0.0000</b>	<b>1.4521</b>	<b>1.4521</b>	<b>0.0000</b>	<b>1.3585</b>	<b>1.3585</b>		<b>2,662.4796</b>	<b>2,662.4796</b>	<b>0.6859</b>		<b>2,679.6276</b>



Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.3 Portal Excavation - 2019**

**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	0.0870	0.0651	0.7279	2.1500e-003	0.2044	1.4000e-003	0.2058	0.0542	1.2900e-003	0.0555		214.4712	214.4712	6.6700e-003		214.6379
<b>Total</b>	<b>0.0870</b>	<b>0.0651</b>	<b>0.7279</b>	<b>2.1500e-003</b>	<b>0.2044</b>	<b>1.4000e-003</b>	<b>0.2058</b>	<b>0.0542</b>	<b>1.2900e-003</b>	<b>0.0555</b>		<b>214.4712</b>	<b>214.4712</b>	<b>6.6700e-003</b>		<b>214.6379</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6350	13.3224	17.6622	0.0272		0.7501	0.7501		0.7501	0.7501	0.0000	2,662.4796	2,662.4796	0.6859		2,679.6276
<b>Total</b>	<b>0.6350</b>	<b>13.3224</b>	<b>17.6622</b>	<b>0.0272</b>	<b>0.0000</b>	<b>0.7501</b>	<b>0.7501</b>	<b>0.0000</b>	<b>0.7501</b>	<b>0.7501</b>	<b>0.0000</b>	<b>2,662.4796</b>	<b>2,662.4796</b>	<b>0.6859</b>		<b>2,679.6276</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.3 Portal Excavation - 2019**

**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	0.0870	0.0651	0.7279	2.1500e-003	0.2044	1.4000e-003	0.2058	0.0542	1.2900e-003	0.0555		214.4712	214.4712	6.6700e-003		214.6379
<b>Total</b>	<b>0.0870</b>	<b>0.0651</b>	<b>0.7279</b>	<b>2.1500e-003</b>	<b>0.2044</b>	<b>1.4000e-003</b>	<b>0.2058</b>	<b>0.0542</b>	<b>1.2900e-003</b>	<b>0.0555</b>		<b>214.4712</b>	<b>214.4712</b>	<b>6.6700e-003</b>		<b>214.6379</b>

**3.4 Site Restoration - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2328	2.3374	2.3027	3.1100e-003		0.1560	0.1560		0.1436	0.1436		307.5419	307.5419	0.0973		309.9744
<b>Total</b>	<b>0.2328</b>	<b>2.3374</b>	<b>2.3027</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1560</b>	<b>0.1560</b>	<b>0.0000</b>	<b>0.1436</b>	<b>0.1436</b>		<b>307.5419</b>	<b>307.5419</b>	<b>0.0973</b>		<b>309.9744</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.4 Site Restoration - 2019**

**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	0.0217	0.0163	0.1820	5.4000e-004	0.0511	3.5000e-004	0.0514	0.0136	3.2000e-004	0.0139		53.6178	53.6178	1.6700e-003		53.6595
<b>Total</b>	<b>0.0217</b>	<b>0.0163</b>	<b>0.1820</b>	<b>5.4000e-004</b>	<b>0.0511</b>	<b>3.5000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>53.6178</b>	<b>53.6178</b>	<b>1.6700e-003</b>		<b>53.6595</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0760	1.7344	2.3421	3.1100e-003		0.1215	0.1215		0.1215	0.1215	0.0000	307.5419	307.5419	0.0973		309.9744
<b>Total</b>	<b>0.0760</b>	<b>1.7344</b>	<b>2.3421</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>307.5419</b>	<b>307.5419</b>	<b>0.0973</b>		<b>309.9744</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.4 Site Restoration - 2019**

**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	0.0217	0.0163	0.1820	5.4000e-004	0.0511	3.5000e-004	0.0514	0.0136	3.2000e-004	0.0139		53.6178	53.6178	1.6700e-003		53.6595
<b>Total</b>	<b>0.0217</b>	<b>0.0163</b>	<b>0.1820</b>	<b>5.4000e-004</b>	<b>0.0511</b>	<b>3.5000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>53.6178</b>	<b>53.6178</b>	<b>1.6700e-003</b>		<b>53.6595</b>

**3.4 Site Restoration - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2095	2.1052	2.2797	3.1100e-003		0.1331	0.1331		0.1225	0.1225		300.7685	300.7685	0.0973		303.2004
<b>Total</b>	<b>0.2095</b>	<b>2.1052</b>	<b>2.2797</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1331</b>	<b>0.1331</b>	<b>0.0000</b>	<b>0.1225</b>	<b>0.1225</b>		<b>300.7685</b>	<b>300.7685</b>	<b>0.0973</b>		<b>303.2004</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.4 Site Restoration - 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	0.0203	0.0147	0.1668	5.2000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.2000e-004	0.0139		51.9247	51.9247	1.5100e-003		51.9624
<b>Total</b>	<b>0.0203</b>	<b>0.0147</b>	<b>0.1668</b>	<b>5.2000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>51.9247</b>	<b>51.9247</b>	<b>1.5100e-003</b>		<b>51.9624</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0760	1.7344	2.3421	3.1100e-003		0.1215	0.1215		0.1215	0.1215	0.0000	300.7685	300.7685	0.0973		303.2004
<b>Total</b>	<b>0.0760</b>	<b>1.7344</b>	<b>2.3421</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>300.7685</b>	<b>300.7685</b>	<b>0.0973</b>		<b>303.2004</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.4 Site Restoration - 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	0.0203	0.0147	0.1668	5.2000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.2000e-004	0.0139		51.9247	51.9247	1.5100e-003		51.9624
<b>Total</b>	<b>0.0203</b>	<b>0.0147</b>	<b>0.1668</b>	<b>5.2000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>51.9247</b>	<b>51.9247</b>	<b>1.5100e-003</b>		<b>51.9624</b>

**3.5 Tunnel Excavation - 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					
Off-Road	2.5068	23.4458	16.6677	0.0272		1.3301	1.3301		1.2430	1.2430		2,619.5716	2,619.5716	0.6814		2,636.6069
<b>Total</b>	<b>2.5068</b>	<b>23.4458</b>	<b>16.6677</b>	<b>0.0272</b>		<b>1.3301</b>	<b>1.3301</b>		<b>1.2430</b>	<b>1.2430</b>		<b>2,619.5716</b>	<b>2,619.5716</b>	<b>0.6814</b>		<b>2,636.6069</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.5 Tunnel Excavation - 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	7.0300e-003	0.2158	0.0547	5.1000e-004	0.0123	1.0000e-003	0.0133	3.5300e-003	9.6000e-004	4.4900e-003		54.3434	54.3434	4.1300e-003		54.4466
Worker	0.1322	0.0955	1.0843	3.3900e-003	0.3321	2.2400e-003	0.3343	0.0881	2.0700e-003	0.0901		337.5104	337.5104	9.8200e-003		337.7559
<b>Total</b>	<b>0.1393</b>	<b>0.3113</b>	<b>1.1389</b>	<b>3.9000e-003</b>	<b>0.3444</b>	<b>3.2400e-003</b>	<b>0.3476</b>	<b>0.0916</b>	<b>3.0300e-003</b>	<b>0.0946</b>		<b>391.8539</b>	<b>391.8539</b>	<b>0.0140</b>		<b>392.2025</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	0.6350	13.3224	17.6622	0.0272		0.7501	0.7501		0.7501	0.7501	0.0000	2,619.5716	2,619.5716	0.6814		2,636.6069
<b>Total</b>	<b>0.6350</b>	<b>13.3224</b>	<b>17.6622</b>	<b>0.0272</b>		<b>0.7501</b>	<b>0.7501</b>		<b>0.7501</b>	<b>0.7501</b>	<b>0.0000</b>	<b>2,619.5716</b>	<b>2,619.5716</b>	<b>0.6814</b>		<b>2,636.6069</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.5 Tunnel Excavation - 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	7.0300e-003	0.2158	0.0547	5.1000e-004	0.0123	1.0000e-003	0.0133	3.5300e-003	9.6000e-004	4.4900e-003		54.3434	54.3434	4.1300e-003		54.4466
Worker	0.1322	0.0955	1.0843	3.3900e-003	0.3321	2.2400e-003	0.3343	0.0881	2.0700e-003	0.0901		337.5104	337.5104	9.8200e-003		337.7559
<b>Total</b>	<b>0.1393</b>	<b>0.3113</b>	<b>1.1389</b>	<b>3.9000e-003</b>	<b>0.3444</b>	<b>3.2400e-003</b>	<b>0.3476</b>	<b>0.0916</b>	<b>3.0300e-003</b>	<b>0.0946</b>		<b>391.8539</b>	<b>391.8539</b>	<b>0.0140</b>		<b>392.2025</b>

**3.5 Tunnel Excavation - 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	2.3575	22.0277	16.5155	0.0272		1.2118	1.2118		1.1315	1.1315		2,619.8969	2,619.8969	0.6780		2,636.8471
<b>Total</b>	<b>2.3575</b>	<b>22.0277</b>	<b>16.5155</b>	<b>0.0272</b>		<b>1.2118</b>	<b>1.2118</b>		<b>1.1315</b>	<b>1.1315</b>		<b>2,619.8969</b>	<b>2,619.8969</b>	<b>0.6780</b>		<b>2,636.8471</b>



Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.5 Tunnel Excavation - 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	5.7200e-003	0.1956	0.0494	5.0000e-004	0.0123	3.9000e-004	0.0126	3.5300e-003	3.7000e-004	3.9000e-003		53.8463	53.8463	3.9600e-003		53.9452
Worker	0.1249	0.0869	1.0160	3.2700e-003	0.3321	2.2100e-003	0.3343	0.0881	2.0300e-003	0.0901		326.1664	326.1664	9.0800e-003		326.3934
<b>Total</b>	<b>0.1306</b>	<b>0.2825</b>	<b>1.0654</b>	<b>3.7700e-003</b>	<b>0.3444</b>	<b>2.6000e-003</b>	<b>0.3470</b>	<b>0.0916</b>	<b>2.4000e-003</b>	<b>0.0940</b>		<b>380.0127</b>	<b>380.0127</b>	<b>0.0130</b>		<b>380.3386</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	0.6350	13.3224	17.6622	0.0272		0.7501	0.7501		0.7501	0.7501	0.0000	2,619.8969	2,619.8969	0.6780		2,636.8471
<b>Total</b>	<b>0.6350</b>	<b>13.3224</b>	<b>17.6622</b>	<b>0.0272</b>		<b>0.7501</b>	<b>0.7501</b>		<b>0.7501</b>	<b>0.7501</b>	<b>0.0000</b>	<b>2,619.8969</b>	<b>2,619.8969</b>	<b>0.6780</b>		<b>2,636.8471</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.5 Tunnel Excavation - 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	5.7200e-003	0.1956	0.0494	5.0000e-004	0.0123	3.9000e-004	0.0126	3.5300e-003	3.7000e-004	3.9000e-003		53.8463	53.8463	3.9600e-003		53.9452
Worker	0.1249	0.0869	1.0160	3.2700e-003	0.3321	2.2100e-003	0.3343	0.0881	2.0300e-003	0.0901		326.1664	326.1664	9.0800e-003		326.3934
<b>Total</b>	<b>0.1306</b>	<b>0.2825</b>	<b>1.0654</b>	<b>3.7700e-003</b>	<b>0.3444</b>	<b>2.6000e-003</b>	<b>0.3470</b>	<b>0.0916</b>	<b>2.4000e-003</b>	<b>0.0940</b>		<b>380.0127</b>	<b>380.0127</b>	<b>0.0130</b>		<b>380.3386</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Morena Pipeline-Trenchless - San Diego County APCD Air District, 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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

5.0 Energy Detail

Historical Energy Use: N

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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**

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

Morena Pipeline-Trenchless - San Diego County APCD Air District, 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	0.0684	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.3000e-004
Unmitigated	0.0739	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		7.6000e-004	7.6000e-004	0.0000		8.0000e-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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		7.6000e-004	7.6000e-004	0.0000		8.0000e-004
<b>Total</b>	<b>0.0739</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>7.6000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>		<b>8.0000e-004</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, 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	0.0684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.3000e-004
<b>Total</b>	<b>0.0684</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>4.3000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators

Morena Pipeline-Trenchless - San Diego County APCD Air District, 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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Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

**Morena Pipeline-Trenchless**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	3.45	1000sqft	0.08	3,452.97	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1726	0
tblAreaCoating	Area_Nonresidential_Interior	5179	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorV alue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorV alue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1.00	25.00
tblConstructionPhase	NumDays	1.00	150.00
tblConstructionPhase	NumDays	1.00	150.00
tblEnergyUse	LightingElect	2.91	0.00

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	BuildingSpaceSquareFeet	3,450.00	3,452.97
tblLandUse	LandUseSquareFeet	3,450.00	3,452.97
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblOffRoadEquipment	PhaseName		Site Preparation at Portal Sites
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Tunnel Excavation
tblProjectCharacteristics	OperationalYear	2018	2022

## Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	4.28	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	13.00	26.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	797,812.50	0.00

## 2.0 Emissions Summary

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Morena Pipeline-Trenchless - San Diego County APCD Air District, 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					
2019	2.7700	25.2282	17.5349	0.0292	0.2044	1.4535	1.6579	0.0542	1.3598	1.4140	0.0000	2,863.7320	2,863.7320	0.7830	0.0000	2,881.0366
2020	2.6675	23.7682	17.7300	0.0309	0.3444	1.3334	1.6777	0.0916	1.2460	1.3376	0.0000	2,989.1029	2,989.1029	0.6950	0.0000	3,006.4783
2021	2.5085	22.3200	17.5067	0.0308	0.3444	1.2144	1.5588	0.0916	1.1340	1.2256	0.0000	2,978.2901	2,978.2901	0.6907	0.0000	2,995.5582
<b>Maximum</b>	<b>2.7700</b>	<b>25.2282</b>	<b>17.7300</b>	<b>0.0309</b>	<b>0.3444</b>	<b>1.4535</b>	<b>1.6777</b>	<b>0.0916</b>	<b>1.3598</b>	<b>1.4140</b>	<b>0.0000</b>	<b>2,989.1029</b>	<b>2,989.1029</b>	<b>0.7830</b>	<b>0.0000</b>	<b>3,006.4783</b>

**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					
2019	0.7357	13.3955	18.3359	0.0292	0.2044	0.7515	0.9558	0.0542	0.7514	0.8055	0.0000	2,863.7320	2,863.7320	0.7830	0.0000	2,881.0366
2020	0.7957	13.6449	18.7245	0.0309	0.3444	0.7533	1.0977	0.0916	0.7531	0.8447	0.0000	2,989.1029	2,989.1029	0.6950	0.0000	3,006.4783
2021	0.7860	13.6147	18.6534	0.0308	0.3444	0.7527	1.0970	0.0916	0.7525	0.8441	0.0000	2,978.2901	2,978.2901	0.6907	0.0000	2,995.5582
<b>Maximum</b>	<b>0.7957</b>	<b>13.6449</b>	<b>18.7245</b>	<b>0.0309</b>	<b>0.3444</b>	<b>0.7533</b>	<b>1.0977</b>	<b>0.0916</b>	<b>0.7531</b>	<b>0.8447</b>	<b>0.0000</b>	<b>2,989.1029</b>	<b>2,989.1029</b>	<b>0.7830</b>	<b>0.0000</b>	<b>3,006.4783</b>

## Morena Pipeline-Trenchless - San Diego County APCD Air District, 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	70.84	42.99	-5.58	0.00	0.00	43.58	35.63	0.00	39.65	37.28	0.00	0.00	0.00	0.00	0.00	0.00

Morena Pipeline-Trenchless - San Diego County APCD Air District, 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	0.0739	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		7.6000e-004	7.6000e-004	0.0000		8.0000e-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
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>0.0739</b>	<b>0.0000</b>	<b>3.5000e-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>7.6000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-004</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	0.0684	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.3000e-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
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>0.0684</b>	<b>0.0000</b>	<b>2.0000e-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>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.3000e-004</b>



## Morena Pipeline-Trenchless - San Diego County APCD Air District, 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	7.51	0.00	42.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.05	46.05	0.00	0.00	46.25

### 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	Site Preparation at Portal Sites	Site Preparation	4/2/2019	5/6/2019	5	25	
2	Portal Excavation	Site Preparation	5/7/2019	12/2/2019	5	150	
3	Site Restoration	Site Preparation	12/3/2019	6/29/2020	5	150	
4	Tunnel Excavation	Trenching	6/30/2020	3/22/2021	5	190	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation at Portal Sites	Graders	1	8.00	187	0.41
Site Preparation at Portal Sites	Scrapers	1	8.00	367	0.48
Site Preparation at Portal Sites	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Portal Excavation	Excavators	1	8.00	158	0.38
Portal Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Portal Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Trenchers	1	8.00	78	0.50
Site Restoration	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tunnel Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Tunnel Excavation	Excavators	1	8.00	158	0.38
Tunnel Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Tunnel Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tunnel Excavation	Trenchers	1	8.00	78	0.50

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation at Portal Sites	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Portal Excavation	5	16.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Restoration	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Tunnel Excavation	5	26.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Site Preparation at Portal Sites - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.7848	21.8308	12.2022	0.0249		0.8732	0.8732		0.8034	0.8034		2,464.9835	2,464.9835	0.7799		2,484.4809
<b>Total</b>	<b>1.7848</b>	<b>21.8308</b>	<b>12.2022</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.8732</b>	<b>0.8732</b>	<b>0.0000</b>	<b>0.8034</b>	<b>0.8034</b>		<b>2,464.9835</b>	<b>2,464.9835</b>	<b>0.7799</b>		<b>2,484.4809</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.2 Site Preparation at Portal Sites - 2019**

**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	0.0503	0.0365	0.3369	1.0100e-003	0.1022	7.0000e-004	0.1029	0.0271	6.5000e-004	0.0277		100.6262	100.6262	3.1300e-003		100.7045
<b>Total</b>	<b>0.0503</b>	<b>0.0365</b>	<b>0.3369</b>	<b>1.0100e-003</b>	<b>0.1022</b>	<b>7.0000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.5000e-004</b>	<b>0.0277</b>		<b>100.6262</b>	<b>100.6262</b>	<b>3.1300e-003</b>		<b>100.7045</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6111	12.0796	13.9359	0.0249		0.5139	0.5139		0.5139	0.5139	0.0000	2,464.9835	2,464.9835	0.7799		2,484.4809
<b>Total</b>	<b>0.6111</b>	<b>12.0796</b>	<b>13.9359</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.5139</b>	<b>0.5139</b>	<b>0.0000</b>	<b>0.5139</b>	<b>0.5139</b>	<b>0.0000</b>	<b>2,464.9835</b>	<b>2,464.9835</b>	<b>0.7799</b>		<b>2,484.4809</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.2 Site Preparation at Portal Sites - 2019**

**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	0.0503	0.0365	0.3369	1.0100e-003	0.1022	7.0000e-004	0.1029	0.0271	6.5000e-004	0.0277		100.6262	100.6262	3.1300e-003		100.7045
<b>Total</b>	<b>0.0503</b>	<b>0.0365</b>	<b>0.3369</b>	<b>1.0100e-003</b>	<b>0.1022</b>	<b>7.0000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.5000e-004</b>	<b>0.0277</b>		<b>100.6262</b>	<b>100.6262</b>	<b>3.1300e-003</b>		<b>100.7045</b>

**3.3 Portal Excavation - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6693	25.1551	16.8612	0.0272		1.4521	1.4521		1.3585	1.3585		2,662.4796	2,662.4796	0.6859		2,679.6276
<b>Total</b>	<b>2.6693</b>	<b>25.1551</b>	<b>16.8612</b>	<b>0.0272</b>	<b>0.0000</b>	<b>1.4521</b>	<b>1.4521</b>	<b>0.0000</b>	<b>1.3585</b>	<b>1.3585</b>		<b>2,662.4796</b>	<b>2,662.4796</b>	<b>0.6859</b>		<b>2,679.6276</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.3 Portal Excavation - 2019**

**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	0.1007	0.0731	0.6737	2.0200e-003	0.2044	1.4000e-003	0.2058	0.0542	1.2900e-003	0.0555		201.2524	201.2524	6.2700e-003		201.4091
<b>Total</b>	<b>0.1007</b>	<b>0.0731</b>	<b>0.6737</b>	<b>2.0200e-003</b>	<b>0.2044</b>	<b>1.4000e-003</b>	<b>0.2058</b>	<b>0.0542</b>	<b>1.2900e-003</b>	<b>0.0555</b>		<b>201.2524</b>	<b>201.2524</b>	<b>6.2700e-003</b>		<b>201.4091</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6350	13.3224	17.6622	0.0272		0.7501	0.7501		0.7501	0.7501	0.0000	2,662.4796	2,662.4796	0.6859		2,679.6276
<b>Total</b>	<b>0.6350</b>	<b>13.3224</b>	<b>17.6622</b>	<b>0.0272</b>	<b>0.0000</b>	<b>0.7501</b>	<b>0.7501</b>	<b>0.0000</b>	<b>0.7501</b>	<b>0.7501</b>	<b>0.0000</b>	<b>2,662.4796</b>	<b>2,662.4796</b>	<b>0.6859</b>		<b>2,679.6276</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.3 Portal Excavation - 2019**

**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	0.1007	0.0731	0.6737	2.0200e-003	0.2044	1.4000e-003	0.2058	0.0542	1.2900e-003	0.0555		201.2524	201.2524	6.2700e-003		201.4091
<b>Total</b>	<b>0.1007</b>	<b>0.0731</b>	<b>0.6737</b>	<b>2.0200e-003</b>	<b>0.2044</b>	<b>1.4000e-003</b>	<b>0.2058</b>	<b>0.0542</b>	<b>1.2900e-003</b>	<b>0.0555</b>		<b>201.2524</b>	<b>201.2524</b>	<b>6.2700e-003</b>		<b>201.4091</b>

**3.4 Site Restoration - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2328	2.3374	2.3027	3.1100e-003		0.1560	0.1560		0.1436	0.1436		307.5419	307.5419	0.0973		309.9744
<b>Total</b>	<b>0.2328</b>	<b>2.3374</b>	<b>2.3027</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1560</b>	<b>0.1560</b>	<b>0.0000</b>	<b>0.1436</b>	<b>0.1436</b>		<b>307.5419</b>	<b>307.5419</b>	<b>0.0973</b>		<b>309.9744</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.4 Site Restoration - 2019**

**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	0.0252	0.0183	0.1684	5.0000e-004	0.0511	3.5000e-004	0.0514	0.0136	3.2000e-004	0.0139		50.3131	50.3131	1.5700e-003		50.3523
<b>Total</b>	<b>0.0252</b>	<b>0.0183</b>	<b>0.1684</b>	<b>5.0000e-004</b>	<b>0.0511</b>	<b>3.5000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>50.3131</b>	<b>50.3131</b>	<b>1.5700e-003</b>		<b>50.3523</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0760	1.7344	2.3421	3.1100e-003		0.1215	0.1215		0.1215	0.1215	0.0000	307.5419	307.5419	0.0973		309.9744
<b>Total</b>	<b>0.0760</b>	<b>1.7344</b>	<b>2.3421</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>307.5419</b>	<b>307.5419</b>	<b>0.0973</b>		<b>309.9744</b>



Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.4 Site Restoration - 2019**

**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	0.0252	0.0183	0.1684	5.0000e-004	0.0511	3.5000e-004	0.0514	0.0136	3.2000e-004	0.0139		50.3131	50.3131	1.5700e-003		50.3523
<b>Total</b>	<b>0.0252</b>	<b>0.0183</b>	<b>0.1684</b>	<b>5.0000e-004</b>	<b>0.0511</b>	<b>3.5000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>50.3131</b>	<b>50.3131</b>	<b>1.5700e-003</b>		<b>50.3523</b>

**3.4 Site Restoration - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2095	2.1052	2.2797	3.1100e-003		0.1331	0.1331		0.1225	0.1225		300.7685	300.7685	0.0973		303.2004
<b>Total</b>	<b>0.2095</b>	<b>2.1052</b>	<b>2.2797</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1331</b>	<b>0.1331</b>	<b>0.0000</b>	<b>0.1225</b>	<b>0.1225</b>		<b>300.7685</b>	<b>300.7685</b>	<b>0.0973</b>		<b>303.2004</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.4 Site Restoration - 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	0.0236	0.0165	0.1541	4.9000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.2000e-004	0.0139		48.7236	48.7236	1.4200e-003		48.7590
<b>Total</b>	<b>0.0236</b>	<b>0.0165</b>	<b>0.1541</b>	<b>4.9000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>48.7236</b>	<b>48.7236</b>	<b>1.4200e-003</b>		<b>48.7590</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0760	1.7344	2.3421	3.1100e-003		0.1215	0.1215		0.1215	0.1215	0.0000	300.7685	300.7685	0.0973		303.2004
<b>Total</b>	<b>0.0760</b>	<b>1.7344</b>	<b>2.3421</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>300.7685</b>	<b>300.7685</b>	<b>0.0973</b>		<b>303.2004</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.4 Site Restoration - 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	0.0236	0.0165	0.1541	4.9000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.2000e-004	0.0139		48.7236	48.7236	1.4200e-003		48.7590
<b>Total</b>	<b>0.0236</b>	<b>0.0165</b>	<b>0.1541</b>	<b>4.9000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>48.7236</b>	<b>48.7236</b>	<b>1.4200e-003</b>		<b>48.7590</b>

**3.5 Tunnel Excavation - 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					
Off-Road	2.5068	23.4458	16.6677	0.0272		1.3301	1.3301		1.2430	1.2430		2,619.5716	2,619.5716	0.6814		2,636.6069
<b>Total</b>	<b>2.5068</b>	<b>23.4458</b>	<b>16.6677</b>	<b>0.0272</b>		<b>1.3301</b>	<b>1.3301</b>		<b>1.2430</b>	<b>1.2430</b>		<b>2,619.5716</b>	<b>2,619.5716</b>	<b>0.6814</b>		<b>2,636.6069</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.5 Tunnel Excavation - 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	7.3800e-003	0.2153	0.0610	4.9000e-004	0.0123	1.0300e-003	0.0133	3.5300e-003	9.8000e-004	4.5100e-003		52.8279	52.8279	4.4000e-003		52.9379
Worker	0.1533	0.1072	1.0013	3.1800e-003	0.3321	2.2400e-003	0.3343	0.0881	2.0700e-003	0.0901		316.7034	316.7034	9.2100e-003		316.9335
<b>Total</b>	<b>0.1607</b>	<b>0.3225</b>	<b>1.0623</b>	<b>3.6700e-003</b>	<b>0.3444</b>	<b>3.2700e-003</b>	<b>0.3476</b>	<b>0.0916</b>	<b>3.0500e-003</b>	<b>0.0946</b>		<b>369.5313</b>	<b>369.5313</b>	<b>0.0136</b>		<b>369.8714</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	0.6350	13.3224	17.6622	0.0272		0.7501	0.7501		0.7501	0.7501	0.0000	2,619.5716	2,619.5716	0.6814		2,636.6069
<b>Total</b>	<b>0.6350</b>	<b>13.3224</b>	<b>17.6622</b>	<b>0.0272</b>		<b>0.7501</b>	<b>0.7501</b>		<b>0.7501</b>	<b>0.7501</b>	<b>0.0000</b>	<b>2,619.5716</b>	<b>2,619.5716</b>	<b>0.6814</b>		<b>2,636.6069</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.5 Tunnel Excavation - 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	7.3800e-003	0.2153	0.0610	4.9000e-004	0.0123	1.0300e-003	0.0133	3.5300e-003	9.8000e-004	4.5100e-003		52.8279	52.8279	4.4000e-003		52.9379
Worker	0.1533	0.1072	1.0013	3.1800e-003	0.3321	2.2400e-003	0.3343	0.0881	2.0700e-003	0.0901		316.7034	316.7034	9.2100e-003		316.9335
<b>Total</b>	<b>0.1607</b>	<b>0.3225</b>	<b>1.0623</b>	<b>3.6700e-003</b>	<b>0.3444</b>	<b>3.2700e-003</b>	<b>0.3476</b>	<b>0.0916</b>	<b>3.0500e-003</b>	<b>0.0946</b>		<b>369.5313</b>	<b>369.5313</b>	<b>0.0136</b>		<b>369.8714</b>

**3.5 Tunnel Excavation - 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	2.3575	22.0277	16.5155	0.0272		1.2118	1.2118		1.1315	1.1315		2,619.8969	2,619.8969	0.6780		2,636.8471
<b>Total</b>	<b>2.3575</b>	<b>22.0277</b>	<b>16.5155</b>	<b>0.0272</b>		<b>1.2118</b>	<b>1.2118</b>		<b>1.1315</b>	<b>1.1315</b>		<b>2,619.8969</b>	<b>2,619.8969</b>	<b>0.6780</b>		<b>2,636.8471</b>

Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.5 Tunnel Excavation - 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	6.0400e-003	0.1948	0.0553	4.9000e-004	0.0123	4.1000e-004	0.0127	3.5300e-003	3.9000e-004	3.9200e-003		52.3397	52.3397	4.2200e-003		52.4451
Worker	0.1450	0.0975	0.9358	3.0700e-003	0.3321	2.2100e-003	0.3343	0.0881	2.0300e-003	0.0901		306.0535	306.0535	8.5000e-003		306.2660
<b>Total</b>	<b>0.1511</b>	<b>0.2923</b>	<b>0.9912</b>	<b>3.5600e-003</b>	<b>0.3444</b>	<b>2.6200e-003</b>	<b>0.3470</b>	<b>0.0916</b>	<b>2.4200e-003</b>	<b>0.0940</b>		<b>358.3932</b>	<b>358.3932</b>	<b>0.0127</b>		<b>358.7111</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	0.6350	13.3224	17.6622	0.0272		0.7501	0.7501		0.7501	0.7501	0.0000	2,619.8969	2,619.8969	0.6780		2,636.8471
<b>Total</b>	<b>0.6350</b>	<b>13.3224</b>	<b>17.6622</b>	<b>0.0272</b>		<b>0.7501</b>	<b>0.7501</b>		<b>0.7501</b>	<b>0.7501</b>	<b>0.0000</b>	<b>2,619.8969</b>	<b>2,619.8969</b>	<b>0.6780</b>		<b>2,636.8471</b>

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**3.5 Tunnel Excavation - 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	6.0400e-003	0.1948	0.0553	4.9000e-004	0.0123	4.1000e-004	0.0127	3.5300e-003	3.9000e-004	3.9200e-003		52.3397	52.3397	4.2200e-003		52.4451
Worker	0.1450	0.0975	0.9358	3.0700e-003	0.3321	2.2100e-003	0.3343	0.0881	2.0300e-003	0.0901		306.0535	306.0535	8.5000e-003		306.2660
<b>Total</b>	<b>0.1511</b>	<b>0.2923</b>	<b>0.9912</b>	<b>3.5600e-003</b>	<b>0.3444</b>	<b>2.6200e-003</b>	<b>0.3470</b>	<b>0.0916</b>	<b>2.4200e-003</b>	<b>0.0940</b>		<b>358.3932</b>	<b>358.3932</b>	<b>0.0127</b>		<b>358.7111</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Morena Pipeline-Trenchless - San Diego County APCD Air District, 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	0.0000	0.0000	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

5.0 Energy Detail

Historical Energy Use: N



Morena Pipeline-Trenchless - San Diego County APCD Air District, Winter

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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	
<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>	

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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**

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

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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	lb/day										lb/day					
Mitigated	0.0684	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.3000e-004
Unmitigated	0.0739	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		7.6000e-004	7.6000e-004	0.0000		8.0000e-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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0739					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-005	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		7.6000e-004	7.6000e-004	0.0000		8.0000e-004
<b>Total</b>	<b>0.0739</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>7.6000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>		<b>8.0000e-004</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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0684					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.3000e-004
<b>Total</b>	<b>0.0684</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>4.3000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators

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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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**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	6.07	1000sqft	0.14	6,070.00	1

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description.

Construction Phase - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

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Grading -  
Demolition -

Trips and VMT - See Section 7.2.1 for Construction Details.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1.

Vehicle Trips - No operational trips.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Woodstoves -

Consumer Products -

Area Coating - In accordance with SDAPCD Rule 67.0.1.

Landscape Equipment -

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on information provided by the City.

Solid Waste - EPA waste generation rate of 4.46 lb/person/day.

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Stationary Sources - Process Boilers -

Stationary Sources - Process Boilers EF -

Stationary Sources - User Defined -

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - Per MM-AQ-1, all construction equipment will be at least Tier 3.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - In accordance with SDAPCD Rule 67.0.1.

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Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3



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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	NumDays	100.00	180.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	2.00	90.00
tblConstructionPhase	NumDays	5.00	14.00
tblConstructionPhase	PhaseEndDate	4/1/2019	6/24/2020
tblConstructionPhase	PhaseEndDate	4/1/2019	6/15/2020
tblConstructionPhase	PhaseEndDate	4/1/2019	6/3/2019
tblConstructionPhase	PhaseEndDate	4/1/2019	10/7/2019
tblConstructionPhase	PhaseEndDate	4/1/2019	7/14/2020
tblConstructionPhase	PhaseStartDate	4/2/2019	6/16/2020
tblConstructionPhase	PhaseStartDate	4/2/2019	10/8/2019
tblConstructionPhase	PhaseStartDate	4/2/2019	6/4/2019
tblConstructionPhase	PhaseStartDate	4/2/2019	6/25/2020
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00

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tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	Population	0.00	1.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading

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tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblSolidWaste	SolidWasteGenerationRate	7.53	0.29
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	VendorTripNumber	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	3.00	16.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	1,403,687.50	10,400.00

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**2.0 Emissions Summary**

**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					
2019	0.1371	1.2442	0.9792	1.9300e-003	0.0160	0.0598	0.0759	4.3000e-003	0.0566	0.0609	0.0000	169.0148	169.0148	0.0357	0.0000	169.9083
2020	0.1264	0.8404	0.6975	1.3200e-003	9.3800e-003	0.0425	0.0519	2.5100e-003	0.0406	0.0431	0.0000	112.4960	112.4960	0.0217	0.0000	113.0380
<b>Maximum</b>	<b>0.1371</b>	<b>1.2442</b>	<b>0.9792</b>	<b>1.9300e-003</b>	<b>0.0160</b>	<b>0.0598</b>	<b>0.0759</b>	<b>4.3000e-003</b>	<b>0.0566</b>	<b>0.0609</b>	<b>0.0000</b>	<b>169.0148</b>	<b>169.0148</b>	<b>0.0357</b>	<b>0.0000</b>	<b>169.9083</b>

**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					
2019	0.0437	0.7844	1.0236	1.9300e-003	0.0160	0.0381	0.0541	4.3000e-003	0.0380	0.0424	0.0000	169.0147	169.0147	0.0357	0.0000	169.9082
2020	0.0617	0.6049	0.7500	1.3200e-003	9.3800e-003	0.0346	0.0439	2.5100e-003	0.0345	0.0371	0.0000	112.4958	112.4958	0.0217	0.0000	113.0379
<b>Maximum</b>	<b>0.0617</b>	<b>0.7844</b>	<b>1.0236</b>	<b>1.9300e-003</b>	<b>0.0160</b>	<b>0.0381</b>	<b>0.0541</b>	<b>4.3000e-003</b>	<b>0.0380</b>	<b>0.0424</b>	<b>0.0000</b>	<b>169.0147</b>	<b>169.0147</b>	<b>0.0357</b>	<b>0.0000</b>	<b>169.9082</b>

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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	59.98	33.36	-5.78	0.00	0.00	29.06	23.28	0.00	25.34	23.68	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	4-2-2019	7-1-2019	0.5715	0.2898
2	7-2-2019	10-1-2019	0.2966	0.2184
3	10-2-2019	1-1-2020	0.5148	0.3207
4	1-2-2020	4-1-2020	0.4793	0.3231
5	4-2-2020	7-1-2020	0.4463	0.3115
6	7-2-2020	9-30-2020	0.0363	0.0280
		Highest	0.5715	0.3231

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	0.0265	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.2000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0589	0.0000	0.0589	3.4800e-003	0.0000	0.1458
Water						0.0000	0.0000		0.0000	0.0000	3.3000e-003	0.0443	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>	<b>0.0265</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0622</b>	<b>0.0444</b>	<b>0.1065</b>	<b>3.8200e-003</b>	<b>1.0000e-005</b>	<b>0.2045</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	0.0265	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.2000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0589	0.0000	0.0589	3.4800e-003	0.0000	0.1458
Water						0.0000	0.0000		0.0000	0.0000	3.3000e-003	0.0443	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>	<b>0.0265</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0622</b>	<b>0.0444</b>	<b>0.1065</b>	<b>3.8200e-003</b>	<b>1.0000e-005</b>	<b>0.2045</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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	6/16/2020	6/24/2020	5	7	
2	Building Construction	Building Construction	10/8/2019	6/15/2020	5	180	
3	Demolition	Demolition	4/2/2019	6/3/2019	5	45	
4	Grading	Grading	6/4/2019	10/7/2019	5	90	
5	Paving	Paving	6/25/2020	7/14/2020	5	14	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,105; Non-Residential Outdoor: 3,035; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Paving Equipment	1	8.00	132	0.36
Demolition	Dumpers/Tenders	2	8.00	16	0.38
Demolition	Excavators	1	8.00	158	0.38
	Air Compressors	1	8.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Dumpers/Tenders	2	8.00	16	0.38
Grading	Excavators	2	8.00	158	0.38
	Cranes	1	8.00	231	0.29
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Grading	Plate Compactors	2	8.00	8	0.43

**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
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	16.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	0.00	400.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Water Exposed Area
- Clean Paved Roads

**3.2 Architectural Coating - 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					
Archit. Coating	0.0281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	5.8900e-003	6.4100e-003	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	0.8936	0.8936	7.0000e-005	0.0000	0.8954
<b>Total</b>	<b>0.0290</b>	<b>5.8900e-003</b>	<b>6.4100e-003</b>	<b>1.0000e-005</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>0.8936</b>	<b>0.8936</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.8954</b>

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**3.2 Architectural Coating - 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	3.0000e-005	2.0000e-005	1.9000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.0507	0.0507	0.0000	0.0000	0.0508
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0507</b>	<b>0.0507</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0508</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					
Archit. Coating	0.0281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1000e-004	4.7500e-003	6.4100e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.8936	0.8936	7.0000e-005	0.0000	0.8954
<b>Total</b>	<b>0.0283</b>	<b>4.7500e-003</b>	<b>6.4100e-003</b>	<b>1.0000e-005</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.8936</b>	<b>0.8936</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.8954</b>

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**3.2 Architectural Coating - 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	3.0000e-005	2.0000e-005	1.9000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.0507	0.0507	0.0000	0.0000	0.0508
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0507</b>	<b>0.0507</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0508</b>

**3.3 Building Construction - 2019**

**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	0.0502	0.4307	0.3193	5.7000e-004		0.0232	0.0232		0.0222	0.0222	0.0000	48.5536	48.5536	9.9100e-003	0.0000	48.8012
<b>Total</b>	<b>0.0502</b>	<b>0.4307</b>	<b>0.3193</b>	<b>5.7000e-004</b>		<b>0.0232</b>	<b>0.0232</b>		<b>0.0222</b>	<b>0.0222</b>	<b>0.0000</b>	<b>48.5536</b>	<b>48.5536</b>	<b>9.9100e-003</b>	<b>0.0000</b>	<b>48.8012</b>

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**3.3 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	7.6600e-003	2.0600e-003	2.0000e-005	4.0000e-004	5.0000e-005	4.6000e-004	1.2000e-004	5.0000e-005	1.7000e-004	0.0000	1.6206	1.6206	1.3000e-004	0.0000	1.6239
Worker	1.9200e-003	1.4800e-003	0.0143	4.0000e-005	3.9100e-003	3.0000e-005	3.9400e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.6527	3.6527	1.2000e-004	0.0000	3.6556
<b>Total</b>	<b>2.2100e-003</b>	<b>9.1400e-003</b>	<b>0.0163</b>	<b>6.0000e-005</b>	<b>4.3100e-003</b>	<b>8.0000e-005</b>	<b>4.4000e-003</b>	<b>1.1600e-003</b>	<b>8.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>5.2733</b>	<b>5.2733</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.2795</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	0.0138	0.2789	0.3336	5.7000e-004		0.0164	0.0164		0.0164	0.0164	0.0000	48.5535	48.5535	9.9100e-003	0.0000	48.8012
<b>Total</b>	<b>0.0138</b>	<b>0.2789</b>	<b>0.3336</b>	<b>5.7000e-004</b>		<b>0.0164</b>	<b>0.0164</b>		<b>0.0164</b>	<b>0.0164</b>	<b>0.0000</b>	<b>48.5535</b>	<b>48.5535</b>	<b>9.9100e-003</b>	<b>0.0000</b>	<b>48.8012</b>

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**3.3 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	7.6600e-003	2.0600e-003	2.0000e-005	4.0000e-004	5.0000e-005	4.6000e-004	1.2000e-004	5.0000e-005	1.7000e-004	0.0000	1.6206	1.6206	1.3000e-004	0.0000	1.6239
Worker	1.9200e-003	1.4800e-003	0.0143	4.0000e-005	3.9100e-003	3.0000e-005	3.9400e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.6527	3.6527	1.2000e-004	0.0000	3.6556
<b>Total</b>	<b>2.2100e-003</b>	<b>9.1400e-003</b>	<b>0.0163</b>	<b>6.0000e-005</b>	<b>4.3100e-003</b>	<b>8.0000e-005</b>	<b>4.4000e-003</b>	<b>1.1600e-003</b>	<b>8.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>5.2733</b>	<b>5.2733</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.2795</b>

**3.3 Building Construction - 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					
Off-Road	0.0882	0.7688	0.6075	1.1100e-003		0.0394	0.0394		0.0377	0.0377	0.0000	93.6891	93.6891	0.0189	0.0000	94.1609
<b>Total</b>	<b>0.0882</b>	<b>0.7688</b>	<b>0.6075</b>	<b>1.1100e-003</b>		<b>0.0394</b>	<b>0.0394</b>		<b>0.0377</b>	<b>0.0377</b>	<b>0.0000</b>	<b>93.6891</b>	<b>93.6891</b>	<b>0.0189</b>	<b>0.0000</b>	<b>94.1609</b>

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**3.3 Building Construction - 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	4.5000e-004	0.0136	3.6000e-003	3.0000e-005	7.9000e-004	7.0000e-005	8.6000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0000	3.1400	3.1400	2.4000e-004	0.0000	3.1460
Worker	3.5100e-003	2.6000e-003	0.0255	8.0000e-005	7.6300e-003	5.0000e-005	7.6900e-003	2.0300e-003	5.0000e-005	2.0800e-003	0.0000	6.9008	6.9008	2.1000e-004	0.0000	6.9060
<b>Total</b>	<b>3.9600e-003</b>	<b>0.0162</b>	<b>0.0291</b>	<b>1.1000e-004</b>	<b>8.4200e-003</b>	<b>1.2000e-004</b>	<b>8.5500e-003</b>	<b>2.2600e-003</b>	<b>1.1000e-004</b>	<b>2.3700e-003</b>	<b>0.0000</b>	<b>10.0408</b>	<b>10.0408</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>10.0520</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	0.0270	0.5441	0.6508	1.1100e-003		0.0320	0.0320		0.0320	0.0320	0.0000	93.6890	93.6890	0.0189	0.0000	94.1607
<b>Total</b>	<b>0.0270</b>	<b>0.5441</b>	<b>0.6508</b>	<b>1.1100e-003</b>		<b>0.0320</b>	<b>0.0320</b>		<b>0.0320</b>	<b>0.0320</b>	<b>0.0000</b>	<b>93.6890</b>	<b>93.6890</b>	<b>0.0189</b>	<b>0.0000</b>	<b>94.1607</b>

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**3.3 Building Construction - 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	4.5000e-004	0.0136	3.6000e-003	3.0000e-005	7.9000e-004	7.0000e-005	8.6000e-004	2.3000e-004	6.0000e-005	2.9000e-004	0.0000	3.1400	3.1400	2.4000e-004	0.0000	3.1460
Worker	3.5100e-003	2.6000e-003	0.0255	8.0000e-005	7.6300e-003	5.0000e-005	7.6900e-003	2.0300e-003	5.0000e-005	2.0800e-003	0.0000	6.9008	6.9008	2.1000e-004	0.0000	6.9060
<b>Total</b>	<b>3.9600e-003</b>	<b>0.0162</b>	<b>0.0291</b>	<b>1.1000e-004</b>	<b>8.4200e-003</b>	<b>1.2000e-004</b>	<b>8.5500e-003</b>	<b>2.2600e-003</b>	<b>1.1000e-004</b>	<b>2.3700e-003</b>	<b>0.0000</b>	<b>10.0408</b>	<b>10.0408</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>10.0520</b>

**3.4 Demolition - 2019**

**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	0.0451	0.4340	0.2648	4.8000e-004		0.0221	0.0221		0.0209	0.0209	0.0000	42.3268	42.3268	9.9000e-003	0.0000	42.5742
<b>Total</b>	<b>0.0451</b>	<b>0.4340</b>	<b>0.2648</b>	<b>4.8000e-004</b>		<b>0.0221</b>	<b>0.0221</b>		<b>0.0209</b>	<b>0.0209</b>	<b>0.0000</b>	<b>42.3268</b>	<b>42.3268</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>42.5742</b>

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**3.4 Demolition - 2019**

**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	1.2400e-003	9.5000e-004	9.2200e-003	3.0000e-005	2.5300e-003	2.0000e-005	2.5400e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	2.3578	2.3578	8.0000e-005	0.0000	2.3597
<b>Total</b>	<b>1.2400e-003</b>	<b>9.5000e-004</b>	<b>9.2200e-003</b>	<b>3.0000e-005</b>	<b>2.5300e-003</b>	<b>2.0000e-005</b>	<b>2.5400e-003</b>	<b>6.7000e-004</b>	<b>2.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.3578</b>	<b>2.3578</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.3597</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	0.0104	0.2108	0.2774	4.8000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	42.3267	42.3267	9.9000e-003	0.0000	42.5741
<b>Total</b>	<b>0.0104</b>	<b>0.2108</b>	<b>0.2774</b>	<b>4.8000e-004</b>		<b>0.0106</b>	<b>0.0106</b>		<b>0.0106</b>	<b>0.0106</b>	<b>0.0000</b>	<b>42.3267</b>	<b>42.3267</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>42.5741</b>



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**3.4 Demolition - 2019**

**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	1.2400e-003	9.5000e-004	9.2200e-003	3.0000e-005	2.5300e-003	2.0000e-005	2.5400e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	2.3578	2.3578	8.0000e-005	0.0000	2.3597
<b>Total</b>	<b>1.2400e-003</b>	<b>9.5000e-004</b>	<b>9.2200e-003</b>	<b>3.0000e-005</b>	<b>2.5300e-003</b>	<b>2.0000e-005</b>	<b>2.5400e-003</b>	<b>6.7000e-004</b>	<b>2.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.3578</b>	<b>2.3578</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.3597</b>

**3.5 Grading - 2019**

**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	0.0337	0.3059	0.3352	5.8000e-004		0.0141	0.0141		0.0132	0.0132	0.0000	49.5224	49.5224	0.0140	0.0000	49.8731
<b>Total</b>	<b>0.0337</b>	<b>0.3059</b>	<b>0.3352</b>	<b>5.8000e-004</b>		<b>0.0141</b>	<b>0.0141</b>		<b>0.0132</b>	<b>0.0132</b>	<b>0.0000</b>	<b>49.5224</b>	<b>49.5224</b>	<b>0.0140</b>	<b>0.0000</b>	<b>49.8731</b>

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**3.5 Grading - 2019**

**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	1.7600e-003	0.0613	0.0134	1.6000e-004	3.4200e-003	2.3000e-004	3.6500e-003	9.4000e-004	2.2000e-004	1.1600e-003	0.0000	15.5919	15.5919	1.4100e-003	0.0000	15.6272
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	2.8400e-003	2.1800e-003	0.0211	6.0000e-005	5.7700e-003	4.0000e-005	5.8200e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	5.3892	5.3892	1.7000e-004	0.0000	5.3935
<b>Total</b>	<b>4.6000e-003</b>	<b>0.0635</b>	<b>0.0344</b>	<b>2.2000e-004</b>	<b>9.1900e-003</b>	<b>2.7000e-004</b>	<b>9.4700e-003</b>	<b>2.4700e-003</b>	<b>2.6000e-004</b>	<b>2.7300e-003</b>	<b>0.0000</b>	<b>20.9811</b>	<b>20.9811</b>	<b>1.5800e-003</b>	<b>0.0000</b>	<b>21.0207</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	0.0114	0.2211	0.3526	5.8000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	49.5223	49.5223	0.0140	0.0000	49.8731
<b>Total</b>	<b>0.0114</b>	<b>0.2211</b>	<b>0.3526</b>	<b>5.8000e-004</b>		<b>0.0107</b>	<b>0.0107</b>		<b>0.0107</b>	<b>0.0107</b>	<b>0.0000</b>	<b>49.5223</b>	<b>49.5223</b>	<b>0.0140</b>	<b>0.0000</b>	<b>49.8731</b>

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**3.5 Grading - 2019**

**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	1.7600e-003	0.0613	0.0134	1.6000e-004	3.4200e-003	2.3000e-004	3.6500e-003	9.4000e-004	2.2000e-004	1.1600e-003	0.0000	15.5919	15.5919	1.4100e-003	0.0000	15.6272
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	2.8400e-003	2.1800e-003	0.0211	6.0000e-005	5.7700e-003	4.0000e-005	5.8200e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	5.3892	5.3892	1.7000e-004	0.0000	5.3935
<b>Total</b>	<b>4.6000e-003</b>	<b>0.0635</b>	<b>0.0344</b>	<b>2.2000e-004</b>	<b>9.1900e-003</b>	<b>2.7000e-004</b>	<b>9.4700e-003</b>	<b>2.4700e-003</b>	<b>2.6000e-004</b>	<b>2.7300e-003</b>	<b>0.0000</b>	<b>20.9811</b>	<b>20.9811</b>	<b>1.5800e-003</b>	<b>0.0000</b>	<b>21.0207</b>

**3.6 Paving - 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					
Off-Road	4.7500e-003	0.0492	0.0513	8.0000e-005		2.6300e-003	2.6300e-003		2.4200e-003	2.4200e-003	0.0000	7.0099	7.0099	2.2700e-003	0.0000	7.0666
Paving	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>4.7500e-003</b>	<b>0.0492</b>	<b>0.0513</b>	<b>8.0000e-005</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>		<b>2.4200e-003</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>7.0099</b>	<b>7.0099</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>7.0666</b>

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**3.6 Paving - 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	4.1000e-004	3.1000e-004	3.0000e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.0000e-004	2.4000e-004	1.0000e-005	2.4000e-004	0.0000	0.8119	0.8119	2.0000e-005	0.0000	0.8125
<b>Total</b>	<b>4.1000e-004</b>	<b>3.1000e-004</b>	<b>3.0000e-003</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>2.4000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8125</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	1.9600e-003	0.0395	0.0605	8.0000e-005		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	7.0099	7.0099	2.2700e-003	0.0000	7.0666
Paving	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>1.9600e-003</b>	<b>0.0395</b>	<b>0.0605</b>	<b>8.0000e-005</b>		<b>2.1300e-003</b>	<b>2.1300e-003</b>		<b>2.1300e-003</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>7.0099</b>	<b>7.0099</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>7.0666</b>

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**3.6 Paving - 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	4.1000e-004	3.1000e-004	3.0000e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.0000e-004	2.4000e-004	1.0000e-005	2.4000e-004	0.0000	0.8119	0.8119	2.0000e-005	0.0000	0.8125
<b>Total</b>	<b>4.1000e-004</b>	<b>3.1000e-004</b>	<b>3.0000e-003</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>2.4000e-004</b>	<b>1.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.8119</b>	<b>0.8119</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8125</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N



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**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr					
General Light Industry	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	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>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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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	0.0265	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.2000e-004
Unmitigated	0.0265	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.2000e-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	2.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0237					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	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.2000e-004
<b>Total</b>	<b>0.0265</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</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	2.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0237					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	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.2000e-004
<b>Total</b>	<b>0.0265</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Morena Pump Station - San Diego County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0476	3.4000e-004	1.0000e-005	0.0586
Unmitigated	0.0476	3.4000e-004	1.0000e-005	0.0586

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.0104 / 0	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>		<b>0.0476</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>0.0586</b>

Morena Pump Station - San Diego County APCD Air District, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.0104 / 0	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>		<b>0.0476</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>0.0586</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0589	3.4800e-003	0.0000	0.1458
Unmitigated	0.0589	3.4800e-003	0.0000	0.1458

Morena Pump Station - San Diego County APCD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0.29	0.0589	3.4800e-003	0.0000	0.1458
<b>Total</b>		<b>0.0589</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>0.1458</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0.29	0.0589	3.4800e-003	0.0000	0.1458
<b>Total</b>		<b>0.0589</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>0.1458</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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Morena Pump Station - San Diego County APCD Air District, 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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Morena Pump Station - San Diego County APCD Air District, Summer

**Morena Pump Station**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	6.07	1000sqft	0.14	6,070.00	1

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description.

Construction Phase - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.



Morena Pump Station - San Diego County APCD Air District, Summer

Grading -  
Demolition -

Trips and VMT - See Section 7.2.1 for Construction Details.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1.

Vehicle Trips - No operational trips.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Woodstoves -

Consumer Products -

Area Coating - In accordance with SDAPCD Rule 67.0.1.

Landscape Equipment -

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on information provided by the City.

Solid Waste - EPA waste generation rate of 4.46 lb/person/day.

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Stationary Sources - Process Boilers -

Stationary Sources - Process Boilers EF -

Stationary Sources - User Defined -

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - Per MM-AQ-1, all construction equipment will be at least Tier 3.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - In accordance with SDAPCD Rule 67.0.1.

Morena Pump Station - San Diego County APCD Air District, Summer

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Morena Pump Station - San Diego County APCD Air District, Summer

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	NumDays	100.00	180.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	2.00	90.00
tblConstructionPhase	NumDays	5.00	14.00
tblConstructionPhase	PhaseEndDate	4/1/2019	6/24/2020
tblConstructionPhase	PhaseEndDate	4/1/2019	6/15/2020
tblConstructionPhase	PhaseEndDate	4/1/2019	6/3/2019
tblConstructionPhase	PhaseEndDate	4/1/2019	10/7/2019
tblConstructionPhase	PhaseEndDate	4/1/2019	7/14/2020
tblConstructionPhase	PhaseStartDate	4/2/2019	6/16/2020
tblConstructionPhase	PhaseStartDate	4/2/2019	10/8/2019
tblConstructionPhase	PhaseStartDate	4/2/2019	6/4/2019
tblConstructionPhase	PhaseStartDate	4/2/2019	6/25/2020
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00

Morena Pump Station - San Diego County APCD Air District, Summer

tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	Population	0.00	1.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading

## Morena Pump Station - San Diego County APCD Air District, Summer

tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblSolidWaste	SolidWasteGenerationRate	7.53	0.29
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	VendorTripNumber	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	3.00	16.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	1,403,687.50	10,400.00

Morena Pump Station - San Diego County APCD Air District, Summer

**2.0 Emissions Summary**

**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					
2019	2.0607	19.3276	12.2006	0.0227	0.2091	0.9848	1.0998	0.0561	0.9272	0.9577	0.0000	2,195.4840	2,195.4840	0.4887	0.0000	2,207.7014
2020	8.2879	13.1865	10.7210	0.0206	0.1450	0.6638	0.8088	0.0388	0.6354	0.6742	0.0000	1,929.3539	1,929.3539	0.3610	0.0000	1,938.3032
<b>Maximum</b>	<b>8.2879</b>	<b>19.3276</b>	<b>12.2006</b>	<b>0.0227</b>	<b>0.2091</b>	<b>0.9848</b>	<b>1.0998</b>	<b>0.0561</b>	<b>0.9272</b>	<b>0.9577</b>	<b>0.0000</b>	<b>2,195.4840</b>	<b>2,195.4840</b>	<b>0.4887</b>	<b>0.0000</b>	<b>2,207.7014</b>

**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					
2019	0.5260	9.4366	12.7600	0.0227	0.2091	0.5397	0.6847	0.0561	0.5396	0.5783	0.0000	2,195.4840	2,195.4840	0.4887	0.0000	2,207.7014
2020	8.1052	9.4098	11.4486	0.0206	0.1450	0.5391	0.6841	0.0388	0.5390	0.5777	0.0000	1,929.3539	1,929.3539	0.3610	0.0000	1,938.3032
<b>Maximum</b>	<b>8.1052</b>	<b>9.4366</b>	<b>12.7600</b>	<b>0.0227</b>	<b>0.2091</b>	<b>0.5397</b>	<b>0.6847</b>	<b>0.0561</b>	<b>0.5396</b>	<b>0.5783</b>	<b>0.0000</b>	<b>2,195.4840</b>	<b>2,195.4840</b>	<b>0.4887</b>	<b>0.0000</b>	<b>2,207.7014</b>

## Morena Pump Station - San Diego County APCD Air District, 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	16.60	42.04	-5.61	0.00	0.00	34.56	28.29	0.00	30.98	29.16	0.00	0.00	0.00	0.00	0.00	0.00

Morena Pump Station - San Diego County APCD Air District, 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	0.1454	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3300e-003	1.3300e-003	0.0000		1.4200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.1454</b>	<b>1.0000e-005</b>	<b>6.2000e-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>1.3300e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4200e-003</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	0.1454	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3300e-003	1.3300e-003	0.0000		1.4200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.1454</b>	<b>1.0000e-005</b>	<b>6.2000e-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>1.3300e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4200e-003</b>



## Morena Pump Station - San Diego County APCD Air District, 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	Architectural Coating	Architectural Coating	6/16/2020	6/24/2020	5	7	
2	Building Construction	Building Construction	10/8/2019	6/15/2020	5	180	
3	Demolition	Demolition	4/2/2019	6/3/2019	5	45	
4	Grading	Grading	6/4/2019	10/7/2019	5	90	
5	Paving	Paving	6/25/2020	7/14/2020	5	14	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,105; Non-Residential Outdoor: 3,035; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Morena Pump Station - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Paving Equipment	1	8.00	132	0.36
Demolition	Dumpers/Tenders	2	8.00	16	0.38
Demolition	Excavators	1	8.00	158	0.38
	Air Compressors	1	8.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Dumpers/Tenders	2	8.00	16	0.38
Grading	Excavators	2	8.00	158	0.38
	Cranes	1	8.00	231	0.29
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Grading	Plate Compactors	2	8.00	8	0.43

**Trips and VMT**

Morena Pump Station - San Diego County APCD Air District, 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
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	16.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	0.00	400.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Water Exposed Area
- Clean Paved Roads

**3.2 Architectural Coating - 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					
Archit. Coating	8.0384					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>8.2806</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Morena Pump Station - San Diego County APCD Air District, Summer

**3.2 Architectural Coating - 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	7.3400e-003	4.9400e-003	0.0567	1.7000e-004	0.0164	1.2000e-004	0.0165	4.3600e-003	1.1000e-004	4.4600e-003		16.8549	16.8549	5.0000e-004		16.8675
<b>Total</b>	<b>7.3400e-003</b>	<b>4.9400e-003</b>	<b>0.0567</b>	<b>1.7000e-004</b>	<b>0.0164</b>	<b>1.2000e-004</b>	<b>0.0165</b>	<b>4.3600e-003</b>	<b>1.1000e-004</b>	<b>4.4600e-003</b>		<b>16.8549</b>	<b>16.8549</b>	<b>5.0000e-004</b>		<b>16.8675</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					
Archit. Coating	8.0384					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>8.0978</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

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**3.2 Architectural Coating - 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	7.3400e-003	4.9400e-003	0.0567	1.7000e-004	0.0164	1.2000e-004	0.0165	4.3600e-003	1.1000e-004	4.4600e-003		16.8549	16.8549	5.0000e-004		16.8675
<b>Total</b>	<b>7.3400e-003</b>	<b>4.9400e-003</b>	<b>0.0567</b>	<b>1.7000e-004</b>	<b>0.0164</b>	<b>1.2000e-004</b>	<b>0.0165</b>	<b>4.3600e-003</b>	<b>1.1000e-004</b>	<b>4.4600e-003</b>		<b>16.8549</b>	<b>16.8549</b>	<b>5.0000e-004</b>		<b>16.8675</b>

**3.3 Building Construction - 2019**

**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	1.6468	14.1218	10.4681	0.0187		0.7603	0.7603		0.7277	0.7277		1,754.7919	1,754.7919	0.3580		1,763.7428
<b>Total</b>	<b>1.6468</b>	<b>14.1218</b>	<b>10.4681</b>	<b>0.0187</b>		<b>0.7603</b>	<b>0.7603</b>		<b>0.7277</b>	<b>0.7277</b>		<b>1,754.7919</b>	<b>1,754.7919</b>	<b>0.3580</b>		<b>1,763.7428</b>

Morena Pump Station - San Diego County APCD Air District, Summer

**3.3 Building Construction - 2019**

**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	9.2100e-003	0.2480	0.0640	5.5000e-004	0.0135	1.7300e-003	0.0153	3.9000e-003	1.6500e-003	5.5500e-003		59.2033	59.2033	4.5700e-003		59.3176
Worker	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.0720</b>	<b>0.2918</b>	<b>0.5591</b>	<b>1.9500e-003</b>	<b>0.1450</b>	<b>2.6700e-003</b>	<b>0.1476</b>	<b>0.0388</b>	<b>2.5100e-003</b>	<b>0.0413</b>		<b>198.4353</b>	<b>198.4353</b>	<b>9.0200e-003</b>		<b>198.6607</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	0.4539	9.1447	10.9376	0.0187		0.5371	0.5371		0.5371	0.5371	0.0000	1,754.7919	1,754.7919	0.3580		1,763.7428
<b>Total</b>	<b>0.4539</b>	<b>9.1447</b>	<b>10.9376</b>	<b>0.0187</b>		<b>0.5371</b>	<b>0.5371</b>		<b>0.5371</b>	<b>0.5371</b>	<b>0.0000</b>	<b>1,754.7919</b>	<b>1,754.7919</b>	<b>0.3580</b>		<b>1,763.7428</b>

Morena Pump Station - San Diego County APCD Air District, Summer

**3.3 Building Construction - 2019**

**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	9.2100e-003	0.2480	0.0640	5.5000e-004	0.0135	1.7300e-003	0.0153	3.9000e-003	1.6500e-003	5.5500e-003		59.2033	59.2033	4.5700e-003		59.3176
Worker	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.0720</b>	<b>0.2918</b>	<b>0.5591</b>	<b>1.9500e-003</b>	<b>0.1450</b>	<b>2.6700e-003</b>	<b>0.1476</b>	<b>0.0388</b>	<b>2.5100e-003</b>	<b>0.0413</b>		<b>198.4353</b>	<b>198.4353</b>	<b>9.0200e-003</b>		<b>198.6607</b>

**3.3 Building Construction - 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					
Off-Road	1.4831	12.9214	10.2100	0.0187		0.6618	0.6618		0.6335	0.6335		1,735.7064	1,735.7064	0.3496		1,744.4466
<b>Total</b>	<b>1.4831</b>	<b>12.9214</b>	<b>10.2100</b>	<b>0.0187</b>		<b>0.6618</b>	<b>0.6618</b>		<b>0.6335</b>	<b>0.6335</b>		<b>1,735.7064</b>	<b>1,735.7064</b>	<b>0.3496</b>		<b>1,744.4466</b>

Morena Pump Station - San Diego County APCD Air District, Summer

**3.3 Building Construction - 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	7.4700e-003	0.2255	0.0575	5.5000e-004	0.0135	1.1000e-003	0.0146	3.9000e-003	1.0600e-003	4.9500e-003		58.8080	58.8080	4.3400e-003		58.9165
Worker	0.0587	0.0396	0.4535	1.3500e-003	0.1314	9.2000e-004	0.1324	0.0349	8.5000e-004	0.0357		134.8395	134.8395	4.0300e-003		134.9402
<b>Total</b>	<b>0.0662</b>	<b>0.2651</b>	<b>0.5110</b>	<b>1.9000e-003</b>	<b>0.1450</b>	<b>2.0200e-003</b>	<b>0.1470</b>	<b>0.0388</b>	<b>1.9100e-003</b>	<b>0.0407</b>		<b>193.6476</b>	<b>193.6476</b>	<b>8.3700e-003</b>		<b>193.8567</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	0.4539	9.1447	10.9376	0.0187		0.5371	0.5371		0.5371	0.5371	0.0000	1,735.7064	1,735.7064	0.3496		1,744.4466
<b>Total</b>	<b>0.4539</b>	<b>9.1447</b>	<b>10.9376</b>	<b>0.0187</b>		<b>0.5371</b>	<b>0.5371</b>		<b>0.5371</b>	<b>0.5371</b>	<b>0.0000</b>	<b>1,735.7064</b>	<b>1,735.7064</b>	<b>0.3496</b>		<b>1,744.4466</b>



Morena Pump Station - San Diego County APCD Air District, Summer

**3.3 Building Construction - 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	7.4700e-003	0.2255	0.0575	5.5000e-004	0.0135	1.1000e-003	0.0146	3.9000e-003	1.0600e-003	4.9500e-003		58.8080	58.8080	4.3400e-003		58.9165
Worker	0.0587	0.0396	0.4535	1.3500e-003	0.1314	9.2000e-004	0.1324	0.0349	8.5000e-004	0.0357		134.8395	134.8395	4.0300e-003		134.9402
<b>Total</b>	<b>0.0662</b>	<b>0.2651</b>	<b>0.5110</b>	<b>1.9000e-003</b>	<b>0.1450</b>	<b>2.0200e-003</b>	<b>0.1470</b>	<b>0.0388</b>	<b>1.9100e-003</b>	<b>0.0407</b>		<b>193.6476</b>	<b>193.6476</b>	<b>8.3700e-003</b>		<b>193.8567</b>

**3.4 Demolition - 2019**

**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	2.0057	19.2892	11.7675	0.0215		0.9840	0.9840		0.9265	0.9265		2,073.6560	2,073.6560	0.4848		2,085.7761
<b>Total</b>	<b>2.0057</b>	<b>19.2892</b>	<b>11.7675</b>	<b>0.0215</b>		<b>0.9840</b>	<b>0.9840</b>		<b>0.9265</b>	<b>0.9265</b>		<b>2,073.6560</b>	<b>2,073.6560</b>	<b>0.4848</b>		<b>2,085.7761</b>

Morena Pump Station - San Diego County APCD Air District, Summer

**3.4 Demolition - 2019**

**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	0.0550	0.0384	0.4332	1.2200e-003	0.1150	8.2000e-004	0.1158	0.0305	7.6000e-004	0.0313		121.8280	121.8280	3.8900e-003		121.9252
<b>Total</b>	<b>0.0550</b>	<b>0.0384</b>	<b>0.4332</b>	<b>1.2200e-003</b>	<b>0.1150</b>	<b>8.2000e-004</b>	<b>0.1158</b>	<b>0.0305</b>	<b>7.6000e-004</b>	<b>0.0313</b>		<b>121.8280</b>	<b>121.8280</b>	<b>3.8900e-003</b>		<b>121.9252</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	0.4620	9.3691	12.3268	0.0215		0.4728	0.4728		0.4728	0.4728	0.0000	2,073.6560	2,073.6560	0.4848		2,085.7761
<b>Total</b>	<b>0.4620</b>	<b>9.3691</b>	<b>12.3268</b>	<b>0.0215</b>		<b>0.4728</b>	<b>0.4728</b>		<b>0.4728</b>	<b>0.4728</b>	<b>0.0000</b>	<b>2,073.6560</b>	<b>2,073.6560</b>	<b>0.4848</b>		<b>2,085.7761</b>

Morena Pump Station - San Diego County APCD Air District, Summer

**3.4 Demolition - 2019**

**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	0.0550	0.0384	0.4332	1.2200e-003	0.1150	8.2000e-004	0.1158	0.0305	7.6000e-004	0.0313		121.8280	121.8280	3.8900e-003		121.9252
<b>Total</b>	<b>0.0550</b>	<b>0.0384</b>	<b>0.4332</b>	<b>1.2200e-003</b>	<b>0.1150</b>	<b>8.2000e-004</b>	<b>0.1158</b>	<b>0.0305</b>	<b>7.6000e-004</b>	<b>0.0313</b>		<b>121.8280</b>	<b>121.8280</b>	<b>3.8900e-003</b>		<b>121.9252</b>

**3.5 Grading - 2019**

**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	0.7488	6.7973	7.4490	0.0128		0.3140	0.3140		0.2933	0.2933		1,213.0906	1,213.0906	0.3437		1,221.6823
<b>Total</b>	<b>0.7488</b>	<b>6.7973</b>	<b>7.4490</b>	<b>0.0128</b>		<b>0.3140</b>	<b>0.3140</b>		<b>0.2933</b>	<b>0.2933</b>		<b>1,213.0906</b>	<b>1,213.0906</b>	<b>0.3437</b>		<b>1,221.6823</b>

Morena Pump Station - San Diego County APCD Air District, Summer

**3.5 Grading - 2019**

**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	0.0386	1.3350	0.2882	3.5300e-003	0.0777	5.0400e-003	0.0827	0.0213	4.8200e-003	0.0261		384.6545	384.6545	0.0340		385.5055
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	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.1014</b>	<b>1.3788</b>	<b>0.7832</b>	<b>4.9300e-003</b>	<b>0.2091</b>	<b>5.9800e-003</b>	<b>0.2151</b>	<b>0.0561</b>	<b>5.6800e-003</b>	<b>0.0618</b>		<b>523.8865</b>	<b>523.8865</b>	<b>0.0385</b>		<b>524.8486</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	0.2541	4.9134	7.8360	0.0128		0.2372	0.2372		0.2372	0.2372	0.0000	1,213.0906	1,213.0906	0.3437		1,221.6823
<b>Total</b>	<b>0.2541</b>	<b>4.9134</b>	<b>7.8360</b>	<b>0.0128</b>		<b>0.2372</b>	<b>0.2372</b>		<b>0.2372</b>	<b>0.2372</b>	<b>0.0000</b>	<b>1,213.0906</b>	<b>1,213.0906</b>	<b>0.3437</b>		<b>1,221.6823</b>

Morena Pump Station - San Diego County APCD Air District, Summer

**3.5 Grading - 2019**

**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	0.0386	1.3350	0.2882	3.5300e-003	0.0777	5.0400e-003	0.0827	0.0213	4.8200e-003	0.0261		384.6545	384.6545	0.0340		385.5055
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	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.1014</b>	<b>1.3788</b>	<b>0.7832</b>	<b>4.9300e-003</b>	<b>0.2091</b>	<b>5.9800e-003</b>	<b>0.2151</b>	<b>0.0561</b>	<b>5.6800e-003</b>	<b>0.0618</b>		<b>523.8865</b>	<b>523.8865</b>	<b>0.0385</b>		<b>524.8486</b>

**3.6 Paving - 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					
Off-Road	0.6783	7.0328	7.3260	0.0114		0.3764	0.3764		0.3463	0.3463		1,103.8667	1,103.8667	0.3570		1,112.7920
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6783</b>	<b>7.0328</b>	<b>7.3260</b>	<b>0.0114</b>		<b>0.3764</b>	<b>0.3764</b>		<b>0.3463</b>	<b>0.3463</b>		<b>1,103.8667</b>	<b>1,103.8667</b>	<b>0.3570</b>		<b>1,112.7920</b>

Morena Pump Station - San Diego County APCD Air District, Summer

**3.6 Paving - 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	0.0587	0.0396	0.4535	1.3500e-003	0.1314	9.2000e-004	0.1324	0.0349	8.5000e-004	0.0357		134.8395	134.8395	4.0300e-003		134.9402
<b>Total</b>	<b>0.0587</b>	<b>0.0396</b>	<b>0.4535</b>	<b>1.3500e-003</b>	<b>0.1314</b>	<b>9.2000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.5000e-004</b>	<b>0.0357</b>		<b>134.8395</b>	<b>134.8395</b>	<b>4.0300e-003</b>		<b>134.9402</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	0.2805	5.6476	8.6478	0.0114		0.3047	0.3047		0.3047	0.3047	0.0000	1,103.8667	1,103.8667	0.3570		1,112.7920
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>5.6476</b>	<b>8.6478</b>	<b>0.0114</b>		<b>0.3047</b>	<b>0.3047</b>		<b>0.3047</b>	<b>0.3047</b>	<b>0.0000</b>	<b>1,103.8667</b>	<b>1,103.8667</b>	<b>0.3570</b>		<b>1,112.7920</b>

Morena Pump Station - San Diego County APCD Air District, Summer

**3.6 Paving - 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	0.0587	0.0396	0.4535	1.3500e-003	0.1314	9.2000e-004	0.1324	0.0349	8.5000e-004	0.0357		134.8395	134.8395	4.0300e-003		134.9402
<b>Total</b>	<b>0.0587</b>	<b>0.0396</b>	<b>0.4535</b>	<b>1.3500e-003</b>	<b>0.1314</b>	<b>9.2000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.5000e-004</b>	<b>0.0357</b>		<b>134.8395</b>	<b>134.8395</b>	<b>4.0300e-003</b>		<b>134.9402</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Morena Pump Station - San Diego County APCD Air District, 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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N



Morena Pump Station - San Diego County APCD Air District, Summer

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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	
<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>	

Morena Pump Station - San Diego County APCD Air District, Summer

**5.2 Energy by Land Use - Natural Gas**

**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					
General Light Industry	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**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Morena Pump Station - San Diego County APCD Air District, 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	0.1454	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3300e-003	1.3300e-003	0.0000		1.4200e-003
Unmitigated	0.1454	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3300e-003	1.3300e-003	0.0000		1.4200e-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	0.0154					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3300e-003	1.3300e-003	0.0000		1.4200e-003
<b>Total</b>	<b>0.1454</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3300e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>		<b>1.4200e-003</b>

Morena Pump Station - San Diego County APCD Air District, 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	0.0154					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3300e-003	1.3300e-003	0.0000		1.4200e-003
<b>Total</b>	<b>0.1454</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3300e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>		<b>1.4200e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators

Morena Pump Station - San Diego County APCD Air District, 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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Morena Pump Station - San Diego County APCD Air District, Winter

**Morena Pump Station**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	6.07	1000sqft	0.14	6,070.00	1

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description.

Construction Phase - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Morena Pump Station - San Diego County APCD Air District, Winter

Grading -  
Demolition -

Trips and VMT - See Section 7.2.1 for Construction Details.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1.

Vehicle Trips - No operational trips.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Woodstoves -

Consumer Products -

Area Coating - In accordance with SDAPCD Rule 67.0.1.

Landscape Equipment -

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on information provided by the City.

Solid Waste - EPA waste generation rate of 4.46 lb/person/day.

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Stationary Sources - Process Boilers -

Stationary Sources - Process Boilers EF -

Stationary Sources - User Defined -

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - Per MM-AQ-1, all construction equipment will be at least Tier 3.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation - In accordance with SDAPCD Rule 67.0.1.

Morena Pump Station - San Diego County APCD Air District, Winter

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3



Morena Pump Station - San Diego County APCD Air District, Winter

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	NumDays	100.00	180.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	2.00	90.00
tblConstructionPhase	NumDays	5.00	14.00
tblConstructionPhase	PhaseEndDate	4/1/2019	6/24/2020
tblConstructionPhase	PhaseEndDate	4/1/2019	6/15/2020
tblConstructionPhase	PhaseEndDate	4/1/2019	6/3/2019
tblConstructionPhase	PhaseEndDate	4/1/2019	10/7/2019
tblConstructionPhase	PhaseEndDate	4/1/2019	7/14/2020
tblConstructionPhase	PhaseStartDate	4/2/2019	6/16/2020
tblConstructionPhase	PhaseStartDate	4/2/2019	10/8/2019
tblConstructionPhase	PhaseStartDate	4/2/2019	6/4/2019
tblConstructionPhase	PhaseStartDate	4/2/2019	6/25/2020
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00

Morena Pump Station - San Diego County APCD Air District, Winter

tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	Population	0.00	1.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading

## Morena Pump Station - San Diego County APCD Air District, Winter

tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblSolidWaste	SolidWasteGenerationRate	7.53	0.29
tblTripsAndVMT	HaulingTripNumber	0.00	400.00
tblTripsAndVMT	VendorTripNumber	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	3.00	16.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	1,403,687.50	10,400.00

Morena Pump Station - San Diego County APCD Air District, Winter

**2.0 Emissions Summary**

**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					
2019	2.0679	19.3323	12.1768	0.0226	0.2091	0.9848	1.0998	0.0561	0.9272	0.9577	0.0000	2,188.0239	2,188.0239	0.4885	0.0000	2,200.2363
2020	8.2889	13.1911	10.7013	0.0205	0.1450	0.6639	0.8088	0.0388	0.6355	0.6742	0.0000	1,919.5799	1,919.5799	0.3608	0.0000	1,928.5306
<b>Maximum</b>	<b>8.2889</b>	<b>19.3323</b>	<b>12.1768</b>	<b>0.0226</b>	<b>0.2091</b>	<b>0.9848</b>	<b>1.0998</b>	<b>0.0561</b>	<b>0.9272</b>	<b>0.9577</b>	<b>0.0000</b>	<b>2,188.0239</b>	<b>2,188.0239</b>	<b>0.4885</b>	<b>0.0000</b>	<b>2,200.2363</b>

**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					
2019	0.5346	9.4422	12.7362	0.0226	0.2091	0.5397	0.6847	0.0561	0.5396	0.5784	0.0000	2,188.0239	2,188.0239	0.4885	0.0000	2,200.2363
2020	8.1062	9.4145	11.4289	0.0205	0.1450	0.5391	0.6841	0.0388	0.5390	0.5777	0.0000	1,919.5799	1,919.5799	0.3608	0.0000	1,928.5306
<b>Maximum</b>	<b>8.1062</b>	<b>9.4422</b>	<b>12.7362</b>	<b>0.0226</b>	<b>0.2091</b>	<b>0.5397</b>	<b>0.6847</b>	<b>0.0561</b>	<b>0.5396</b>	<b>0.5784</b>	<b>0.0000</b>	<b>2,188.0239</b>	<b>2,188.0239</b>	<b>0.4885</b>	<b>0.0000</b>	<b>2,200.2363</b>

## Morena Pump Station - San Diego County APCD Air District, 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	16.57	42.02	-5.63	0.00	0.00	34.56	28.28	0.00	30.98	29.16	0.00	0.00	0.00	0.00	0.00	0.00

Morena Pump Station - San Diego County APCD Air District, 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	0.1454	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3300e-003	1.3300e-003	0.0000		1.4200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.1454</b>	<b>1.0000e-005</b>	<b>6.2000e-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>1.3300e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4200e-003</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	0.1454	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3300e-003	1.3300e-003	0.0000		1.4200e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.1454</b>	<b>1.0000e-005</b>	<b>6.2000e-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>1.3300e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4200e-003</b>

Morena Pump Station - San Diego County APCD Air District, 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	Architectural Coating	Architectural Coating	6/16/2020	6/24/2020	5	7	
2	Building Construction	Building Construction	10/8/2019	6/15/2020	5	180	
3	Demolition	Demolition	4/2/2019	6/3/2019	5	45	
4	Grading	Grading	6/4/2019	10/7/2019	5	90	
5	Paving	Paving	6/25/2020	7/14/2020	5	14	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,105; Non-Residential Outdoor: 3,035; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Morena Pump Station - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Paving Equipment	1	8.00	132	0.36
Demolition	Dumpers/Tenders	2	8.00	16	0.38
Demolition	Excavators	1	8.00	158	0.38
	Air Compressors	1	8.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Dumpers/Tenders	2	8.00	16	0.38
Grading	Excavators	2	8.00	158	0.38
	Cranes	1	8.00	231	0.29
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Grading	Plate Compactors	2	8.00	8	0.43

**Trips and VMT**



Morena Pump Station - San Diego County APCD Air District, 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
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	16.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	0.00	400.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Water Exposed Area
- Clean Paved Roads

**3.2 Architectural Coating - 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					
Archit. Coating	8.0384					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>8.2806</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Morena Pump Station - San Diego County APCD Air District, Winter

**3.2 Architectural Coating - 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	8.3100e-003	5.5500e-003	0.0535	1.6000e-004	0.0164	1.2000e-004	0.0165	4.3600e-003	1.1000e-004	4.4600e-003		15.8226	15.8226	4.8000e-004		15.8346
<b>Total</b>	<b>8.3100e-003</b>	<b>5.5500e-003</b>	<b>0.0535</b>	<b>1.6000e-004</b>	<b>0.0164</b>	<b>1.2000e-004</b>	<b>0.0165</b>	<b>4.3600e-003</b>	<b>1.1000e-004</b>	<b>4.4600e-003</b>		<b>15.8226</b>	<b>15.8226</b>	<b>4.8000e-004</b>		<b>15.8346</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					
Archit. Coating	8.0384					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>8.0978</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Morena Pump Station - San Diego County APCD Air District, Winter

**3.2 Architectural Coating - 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	8.3100e-003	5.5500e-003	0.0535	1.6000e-004	0.0164	1.2000e-004	0.0165	4.3600e-003	1.1000e-004	4.4600e-003		15.8226	15.8226	4.8000e-004		15.8346
<b>Total</b>	<b>8.3100e-003</b>	<b>5.5500e-003</b>	<b>0.0535</b>	<b>1.6000e-004</b>	<b>0.0164</b>	<b>1.2000e-004</b>	<b>0.0165</b>	<b>4.3600e-003</b>	<b>1.1000e-004</b>	<b>4.4600e-003</b>		<b>15.8226</b>	<b>15.8226</b>	<b>4.8000e-004</b>		<b>15.8346</b>

**3.3 Building Construction - 2019**

**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	1.6468	14.1218	10.4681	0.0187		0.7603	0.7603		0.7277	0.7277		1,754.7919	1,754.7919	0.3580		1,763.7428
<b>Total</b>	<b>1.6468</b>	<b>14.1218</b>	<b>10.4681</b>	<b>0.0187</b>		<b>0.7603</b>	<b>0.7603</b>		<b>0.7277</b>	<b>0.7277</b>		<b>1,754.7919</b>	<b>1,754.7919</b>	<b>0.3580</b>		<b>1,763.7428</b>

Morena Pump Station - San Diego County APCD Air District, Winter

**3.3 Building Construction - 2019**

**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	9.6000e-003	0.2482	0.0710	5.4000e-004	0.0135	1.7600e-003	0.0153	3.9000e-003	1.6800e-003	5.5800e-003		57.7001	57.7001	4.8600e-003		57.8216
Worker	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.0807</b>	<b>0.2974</b>	<b>0.5388</b>	<b>1.8500e-003</b>	<b>0.1450</b>	<b>2.7000e-003</b>	<b>0.1477</b>	<b>0.0388</b>	<b>2.5400e-003</b>	<b>0.0413</b>		<b>188.4063</b>	<b>188.4063</b>	<b>9.0800e-003</b>		<b>188.6333</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	0.4539	9.1447	10.9376	0.0187		0.5371	0.5371		0.5371	0.5371	0.0000	1,754.7919	1,754.7919	0.3580		1,763.7428
<b>Total</b>	<b>0.4539</b>	<b>9.1447</b>	<b>10.9376</b>	<b>0.0187</b>		<b>0.5371</b>	<b>0.5371</b>		<b>0.5371</b>	<b>0.5371</b>	<b>0.0000</b>	<b>1,754.7919</b>	<b>1,754.7919</b>	<b>0.3580</b>		<b>1,763.7428</b>

Morena Pump Station - San Diego County APCD Air District, Winter

**3.3 Building Construction - 2019**

**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	9.6000e-003	0.2482	0.0710	5.4000e-004	0.0135	1.7600e-003	0.0153	3.9000e-003	1.6800e-003	5.5800e-003		57.7001	57.7001	4.8600e-003		57.8216
Worker	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.0807</b>	<b>0.2974</b>	<b>0.5388</b>	<b>1.8500e-003</b>	<b>0.1450</b>	<b>2.7000e-003</b>	<b>0.1477</b>	<b>0.0388</b>	<b>2.5400e-003</b>	<b>0.0413</b>		<b>188.4063</b>	<b>188.4063</b>	<b>9.0800e-003</b>		<b>188.6333</b>

**3.3 Building Construction - 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					
Off-Road	1.4831	12.9214	10.2100	0.0187		0.6618	0.6618		0.6335	0.6335		1,735.7064	1,735.7064	0.3496		1,744.4466
<b>Total</b>	<b>1.4831</b>	<b>12.9214</b>	<b>10.2100</b>	<b>0.0187</b>		<b>0.6618</b>	<b>0.6618</b>		<b>0.6335</b>	<b>0.6335</b>		<b>1,735.7064</b>	<b>1,735.7064</b>	<b>0.3496</b>		<b>1,744.4466</b>

Morena Pump Station - San Diego County APCD Air District, Winter

**3.3 Building Construction - 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	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003		57.2924	57.2924	4.6100e-003		57.4077
Worker	0.0665	0.0444	0.4276	1.2700e-003	0.1314	9.2000e-004	0.1324	0.0349	8.5000e-004	0.0357		126.5811	126.5811	3.8100e-003		126.6764
<b>Total</b>	<b>0.0743</b>	<b>0.2698</b>	<b>0.4914</b>	<b>1.8000e-003</b>	<b>0.1450</b>	<b>2.0400e-003</b>	<b>0.1470</b>	<b>0.0388</b>	<b>1.9300e-003</b>	<b>0.0407</b>		<b>183.8736</b>	<b>183.8736</b>	<b>8.4200e-003</b>		<b>184.0841</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	0.4539	9.1447	10.9376	0.0187		0.5371	0.5371		0.5371	0.5371	0.0000	1,735.7064	1,735.7064	0.3496		1,744.4466
<b>Total</b>	<b>0.4539</b>	<b>9.1447</b>	<b>10.9376</b>	<b>0.0187</b>		<b>0.5371</b>	<b>0.5371</b>		<b>0.5371</b>	<b>0.5371</b>	<b>0.0000</b>	<b>1,735.7064</b>	<b>1,735.7064</b>	<b>0.3496</b>		<b>1,744.4466</b>

Morena Pump Station - San Diego County APCD Air District, Winter

**3.3 Building Construction - 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	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003		57.2924	57.2924	4.6100e-003		57.4077
Worker	0.0665	0.0444	0.4276	1.2700e-003	0.1314	9.2000e-004	0.1324	0.0349	8.5000e-004	0.0357		126.5811	126.5811	3.8100e-003		126.6764
<b>Total</b>	<b>0.0743</b>	<b>0.2698</b>	<b>0.4914</b>	<b>1.8000e-003</b>	<b>0.1450</b>	<b>2.0400e-003</b>	<b>0.1470</b>	<b>0.0388</b>	<b>1.9300e-003</b>	<b>0.0407</b>		<b>183.8736</b>	<b>183.8736</b>	<b>8.4200e-003</b>		<b>184.0841</b>

**3.4 Demolition - 2019**

**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	2.0057	19.2892	11.7675	0.0215		0.9840	0.9840		0.9265	0.9265		2,073.6560	2,073.6560	0.4848		2,085.7761
<b>Total</b>	<b>2.0057</b>	<b>19.2892</b>	<b>11.7675</b>	<b>0.0215</b>		<b>0.9840</b>	<b>0.9840</b>		<b>0.9265</b>	<b>0.9265</b>		<b>2,073.6560</b>	<b>2,073.6560</b>	<b>0.4848</b>		<b>2,085.7761</b>

Morena Pump Station - San Diego County APCD Air District, Winter

**3.4 Demolition - 2019**

**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	0.0622	0.0431	0.4094	1.1500e-003	0.1150	8.2000e-004	0.1158	0.0305	7.6000e-004	0.0313		114.3679	114.3679	3.6900e-003		114.4602
<b>Total</b>	<b>0.0622</b>	<b>0.0431</b>	<b>0.4094</b>	<b>1.1500e-003</b>	<b>0.1150</b>	<b>8.2000e-004</b>	<b>0.1158</b>	<b>0.0305</b>	<b>7.6000e-004</b>	<b>0.0313</b>		<b>114.3679</b>	<b>114.3679</b>	<b>3.6900e-003</b>		<b>114.4602</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	0.4620	9.3691	12.3268	0.0215		0.4728	0.4728		0.4728	0.4728	0.0000	2,073.6560	2,073.6560	0.4848		2,085.7761
<b>Total</b>	<b>0.4620</b>	<b>9.3691</b>	<b>12.3268</b>	<b>0.0215</b>		<b>0.4728</b>	<b>0.4728</b>		<b>0.4728</b>	<b>0.4728</b>	<b>0.0000</b>	<b>2,073.6560</b>	<b>2,073.6560</b>	<b>0.4848</b>		<b>2,085.7761</b>



Morena Pump Station - San Diego County APCD Air District, Winter

**3.4 Demolition - 2019**

**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	0.0622	0.0431	0.4094	1.1500e-003	0.1150	8.2000e-004	0.1158	0.0305	7.6000e-004	0.0313		114.3679	114.3679	3.6900e-003		114.4602
<b>Total</b>	<b>0.0622</b>	<b>0.0431</b>	<b>0.4094</b>	<b>1.1500e-003</b>	<b>0.1150</b>	<b>8.2000e-004</b>	<b>0.1158</b>	<b>0.0305</b>	<b>7.6000e-004</b>	<b>0.0313</b>		<b>114.3679</b>	<b>114.3679</b>	<b>3.6900e-003</b>		<b>114.4602</b>

**3.5 Grading - 2019**

**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	0.7488	6.7973	7.4490	0.0128		0.3140	0.3140		0.2933	0.2933		1,213.0906	1,213.0906	0.3437		1,221.6823
<b>Total</b>	<b>0.7488</b>	<b>6.7973</b>	<b>7.4490</b>	<b>0.0128</b>		<b>0.3140</b>	<b>0.3140</b>		<b>0.2933</b>	<b>0.2933</b>		<b>1,213.0906</b>	<b>1,213.0906</b>	<b>0.3437</b>		<b>1,221.6823</b>

Morena Pump Station - San Diego County APCD Air District, Winter

**3.5 Grading - 2019**

**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	0.0397	1.3487	0.3088	3.4700e-003	0.0777	5.1600e-003	0.0828	0.0213	4.9300e-003	0.0262		378.1817	378.1817	0.0353		379.0635
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	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.1107</b>	<b>1.3979</b>	<b>0.7767</b>	<b>4.7800e-003</b>	<b>0.2091</b>	<b>6.1000e-003</b>	<b>0.2152</b>	<b>0.0561</b>	<b>5.7900e-003</b>	<b>0.0620</b>		<b>508.8879</b>	<b>508.8879</b>	<b>0.0395</b>		<b>509.8752</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	0.2541	4.9134	7.8360	0.0128		0.2372	0.2372		0.2372	0.2372	0.0000	1,213.0906	1,213.0906	0.3437		1,221.6823
<b>Total</b>	<b>0.2541</b>	<b>4.9134</b>	<b>7.8360</b>	<b>0.0128</b>		<b>0.2372</b>	<b>0.2372</b>		<b>0.2372</b>	<b>0.2372</b>	<b>0.0000</b>	<b>1,213.0906</b>	<b>1,213.0906</b>	<b>0.3437</b>		<b>1,221.6823</b>

Morena Pump Station - San Diego County APCD Air District, Winter

**3.5 Grading - 2019**

**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	0.0397	1.3487	0.3088	3.4700e-003	0.0777	5.1600e-003	0.0828	0.0213	4.9300e-003	0.0262		378.1817	378.1817	0.0353		379.0635
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	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.1107</b>	<b>1.3979</b>	<b>0.7767</b>	<b>4.7800e-003</b>	<b>0.2091</b>	<b>6.1000e-003</b>	<b>0.2152</b>	<b>0.0561</b>	<b>5.7900e-003</b>	<b>0.0620</b>		<b>508.8879</b>	<b>508.8879</b>	<b>0.0395</b>		<b>509.8752</b>

**3.6 Paving - 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					
Off-Road	0.6783	7.0328	7.3260	0.0114		0.3764	0.3764		0.3463	0.3463		1,103.8667	1,103.8667	0.3570		1,112.7920
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6783</b>	<b>7.0328</b>	<b>7.3260</b>	<b>0.0114</b>		<b>0.3764</b>	<b>0.3764</b>		<b>0.3463</b>	<b>0.3463</b>		<b>1,103.8667</b>	<b>1,103.8667</b>	<b>0.3570</b>		<b>1,112.7920</b>

Morena Pump Station - San Diego County APCD Air District, Winter

**3.6 Paving - 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	0.0665	0.0444	0.4276	1.2700e-003	0.1314	9.2000e-004	0.1324	0.0349	8.5000e-004	0.0357		126.5811	126.5811	3.8100e-003		126.6764
<b>Total</b>	<b>0.0665</b>	<b>0.0444</b>	<b>0.4276</b>	<b>1.2700e-003</b>	<b>0.1314</b>	<b>9.2000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.5000e-004</b>	<b>0.0357</b>		<b>126.5811</b>	<b>126.5811</b>	<b>3.8100e-003</b>		<b>126.6764</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	0.2805	5.6476	8.6478	0.0114		0.3047	0.3047		0.3047	0.3047	0.0000	1,103.8667	1,103.8667	0.3570		1,112.7920
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2805</b>	<b>5.6476</b>	<b>8.6478</b>	<b>0.0114</b>		<b>0.3047</b>	<b>0.3047</b>		<b>0.3047</b>	<b>0.3047</b>	<b>0.0000</b>	<b>1,103.8667</b>	<b>1,103.8667</b>	<b>0.3570</b>		<b>1,112.7920</b>

Morena Pump Station - San Diego County APCD Air District, Winter

**3.6 Paving - 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	0.0665	0.0444	0.4276	1.2700e-003	0.1314	9.2000e-004	0.1324	0.0349	8.5000e-004	0.0357		126.5811	126.5811	3.8100e-003		126.6764
<b>Total</b>	<b>0.0665</b>	<b>0.0444</b>	<b>0.4276</b>	<b>1.2700e-003</b>	<b>0.1314</b>	<b>9.2000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.5000e-004</b>	<b>0.0357</b>		<b>126.5811</b>	<b>126.5811</b>	<b>3.8100e-003</b>		<b>126.6764</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Morena Pump Station - San Diego County APCD Air District, 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	0.0000	0.0000	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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

Morena Pump Station - San Diego County APCD Air District, Winter

**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	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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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>

Morena Pump Station - San Diego County APCD Air District, Winter

**5.2 Energy by Land Use - Natural Gas**

**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					
General Light Industry	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**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior



Morena Pump Station - San Diego County APCD Air District, 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	0.1454	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3300e-003	1.3300e-003	0.0000		1.4200e-003
Unmitigated	0.1454	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3300e-003	1.3300e-003	0.0000		1.4200e-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	0.0154					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3300e-003	1.3300e-003	0.0000		1.4200e-003
<b>Total</b>	<b>0.1454</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3300e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>		<b>1.4200e-003</b>

Morena Pump Station - San Diego County APCD Air District, 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	0.0154					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3300e-003	1.3300e-003	0.0000		1.4200e-003
<b>Total</b>	<b>0.1454</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3300e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>		<b>1.4200e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators

Morena Pump Station - San Diego County APCD Air District, 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**

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NCPWF IPS - San Diego County APCD Air District, Annual

**NCPWF IPS**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	6.70	1000sqft	0.15	6,700.00	1

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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 - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description.

Construction Phase - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Grading - See Section 7.2.1 for Construction Details.

Demolition - No demolition of structures anticipated.

Trips and VMT - See Section 7.2.1 for Construction Details.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1.

Vehicle Trips - No mobile source emissions.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SDAPCD Rule 67.0.1.

Landscape Equipment - CalEEMod defaults.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - EPA waste generation of 4.46 lb/person/day.

Construction Off-road Equipment Mitigation - Per MM-AQ-1, all construction equipment will be at least Tier 3.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00



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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	14.00
tblConstructionPhase	NumDays	100.00	260.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	2.00	97.00
tblConstructionPhase	NumDays	5.00	80.00
tblConstructionPhase	PhaseEndDate	1/6/2019	7/7/2020
tblConstructionPhase	PhaseEndDate	1/6/2019	6/17/2020
tblConstructionPhase	PhaseEndDate	1/6/2019	2/4/2019
tblConstructionPhase	PhaseEndDate	1/6/2019	6/19/2019
tblConstructionPhase	PhaseEndDate	1/6/2019	10/7/2020
tblConstructionPhase	PhaseStartDate	1/7/2019	6/18/2020
tblConstructionPhase	PhaseStartDate	1/7/2019	6/20/2019
tblConstructionPhase	PhaseStartDate	1/7/2019	2/5/2019
tblConstructionPhase	PhaseStartDate	1/7/2019	6/18/2020
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	0.00	0.30
tblGrading	MaterialImported	0.00	943.00
tblLandUse	Population	0.00	1.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.29

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tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblSolidWaste	SolidWasteGenerationRate	8.31	0.29
tblTripsAndVMT	HaulingTripNumber	118.00	63.00
tblTripsAndVMT	VendorTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	100.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	25.00	10.00
tblTripsAndVMT	WorkerTripNumber	20.00	18.00



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tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	1,549,375.00	10,400.00

## 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	1-7-2019	4-6-2019	0.6405	0.4921
2	4-7-2019	7-6-2019	0.5789	0.4506
3	7-7-2019	10-6-2019	0.6442	0.4735
4	10-7-2019	1-6-2020	0.6432	0.4750
5	1-7-2020	4-6-2020	0.5838	0.4524
6	4-7-2020	7-6-2020	0.5667	0.4433
7	7-7-2020	9-30-2020	0.2885	0.2163
		Highest	0.6442	0.4921

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	0.0293	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0589	0.0000	0.0589	3.4800e-003	0.0000	0.1458
Water						0.0000	0.0000		0.0000	0.0000	3.3000e-003	0.0443	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>	<b>0.0293</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0622</b>	<b>0.0444</b>	<b>0.1066</b>	<b>3.8200e-003</b>	<b>1.0000e-005</b>	<b>0.2045</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	0.0293	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0589	0.0000	0.0589	3.4800e-003	0.0000	0.1458
Water						0.0000	0.0000		0.0000	0.0000	3.3000e-003	0.0443	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>	<b>0.0293</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0622</b>	<b>0.0444</b>	<b>0.1066</b>	<b>3.8200e-003</b>	<b>1.0000e-005</b>	<b>0.2045</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**

## NCPWF IPS - San Diego County APCD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	6/18/2020	7/7/2020	5	14	
2	Building Construction	Building Construction	6/20/2019	6/17/2020	5	260	
3	Demolition	Demolition	1/7/2019	2/4/2019	5	21	
4	Grading	Grading	2/5/2019	6/19/2019	5	97	
5	Paving	Paving	6/18/2020	10/7/2020	5	80	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0.3**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,050; Non-Residential Outdoor: 3,350; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Dumpers/Tenders	1	8.00	16	0.38
Demolition	Dumpers/Tenders	2	8.00	16	0.38
Demolition	Excavators	1	8.00	158	0.38
	Air Compressors	1	8.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Dumpers/Tenders	2	8.00	16	0.38
Building Construction	Forklifts	2	6.00	89	0.20
Grading	Rubber Tired Dozers	1	1.00	247	0.40
	Cranes	2	8.00	231	0.29
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Welders	1	8.00	46	0.45
Grading	Excavators	2	8.00	158	0.38
Grading	Plate Compactors	2	8.00	8	0.43
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

**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
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	100.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	7	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	10.00	0.00	63.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Architectural Coating - 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					
Archit. Coating	0.0311					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-003	0.0118	0.0128	2.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	1.7873	1.7873	1.4000e-004	0.0000	1.7907
<b>Total</b>	<b>0.0328</b>	<b>0.0118</b>	<b>0.0128</b>	<b>2.0000e-005</b>		<b>7.8000e-004</b>	<b>7.8000e-004</b>		<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>1.7873</b>	<b>1.7873</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.7907</b>

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**3.2 Architectural Coating - 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	1.5000e-004	1.1000e-004	1.1200e-003	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3045	0.3045	1.0000e-005	0.0000	0.3047
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.3045</b>	<b>0.3045</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3047</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					
Archit. Coating	0.0311					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2000e-004	9.5000e-003	0.0128	2.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	1.7873	1.7873	1.4000e-004	0.0000	1.7907
<b>Total</b>	<b>0.0315</b>	<b>9.5000e-003</b>	<b>0.0128</b>	<b>2.0000e-005</b>		<b>6.7000e-004</b>	<b>6.7000e-004</b>		<b>6.7000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>1.7873</b>	<b>1.7873</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.7907</b>



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**3.2 Architectural Coating - 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	1.5000e-004	1.1000e-004	1.1200e-003	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3045	0.3045	1.0000e-005	0.0000	0.3047
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.3045</b>	<b>0.3045</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3047</b>

**3.3 Building Construction - 2019**

**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	0.1312	1.1310	0.8527	1.4600e-003		0.0644	0.0644		0.0612	0.0612	0.0000	125.0281	125.0281	0.0271	0.0000	125.7062
<b>Total</b>	<b>0.1312</b>	<b>1.1310</b>	<b>0.8527</b>	<b>1.4600e-003</b>		<b>0.0644</b>	<b>0.0644</b>		<b>0.0612</b>	<b>0.0612</b>	<b>0.0000</b>	<b>125.0281</b>	<b>125.0281</b>	<b>0.0271</b>	<b>0.0000</b>	<b>125.7062</b>

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**3.3 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9500e-003	0.0523	0.0141	1.1000e-004	2.7700e-003	3.6000e-004	3.1300e-003	8.0000e-004	3.5000e-004	1.1500e-003	0.0000	11.0788	11.0788	8.9000e-004	0.0000	11.1010
Worker	0.0274	0.0210	0.2034	5.8000e-004	0.0557	4.1000e-004	0.0561	0.0148	3.7000e-004	0.0152	0.0000	52.0205	52.0205	1.6700e-003	0.0000	52.0623
<b>Total</b>	<b>0.0294</b>	<b>0.0734</b>	<b>0.2174</b>	<b>6.9000e-004</b>	<b>0.0585</b>	<b>7.7000e-004</b>	<b>0.0593</b>	<b>0.0156</b>	<b>7.2000e-004</b>	<b>0.0163</b>	<b>0.0000</b>	<b>63.0993</b>	<b>63.0993</b>	<b>2.5600e-003</b>	<b>0.0000</b>	<b>63.1633</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	0.0607	0.8406	0.9002	1.4600e-003		0.0517	0.0517		0.0501	0.0501	0.0000	125.0279	125.0279	0.0271	0.0000	125.7061
<b>Total</b>	<b>0.0607</b>	<b>0.8406</b>	<b>0.9002</b>	<b>1.4600e-003</b>		<b>0.0517</b>	<b>0.0517</b>		<b>0.0501</b>	<b>0.0501</b>	<b>0.0000</b>	<b>125.0279</b>	<b>125.0279</b>	<b>0.0271</b>	<b>0.0000</b>	<b>125.7061</b>

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**3.3 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9500e-003	0.0523	0.0141	1.1000e-004	2.7700e-003	3.6000e-004	3.1300e-003	8.0000e-004	3.5000e-004	1.1500e-003	0.0000	11.0788	11.0788	8.9000e-004	0.0000	11.1010
Worker	0.0274	0.0210	0.2034	5.8000e-004	0.0557	4.1000e-004	0.0561	0.0148	3.7000e-004	0.0152	0.0000	52.0205	52.0205	1.6700e-003	0.0000	52.0623
<b>Total</b>	<b>0.0294</b>	<b>0.0734</b>	<b>0.2174</b>	<b>6.9000e-004</b>	<b>0.0585</b>	<b>7.7000e-004</b>	<b>0.0593</b>	<b>0.0156</b>	<b>7.2000e-004</b>	<b>0.0163</b>	<b>0.0000</b>	<b>63.0993</b>	<b>63.0993</b>	<b>2.5600e-003</b>	<b>0.0000</b>	<b>63.1633</b>

**3.3 Building Construction - 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					
Off-Road	0.1029	0.9000	0.7254	1.2700e-003		0.0488	0.0488		0.0464	0.0464	0.0000	107.5175	107.5175	0.0232	0.0000	108.0963
<b>Total</b>	<b>0.1029</b>	<b>0.9000</b>	<b>0.7254</b>	<b>1.2700e-003</b>		<b>0.0488</b>	<b>0.0488</b>		<b>0.0464</b>	<b>0.0464</b>	<b>0.0000</b>	<b>107.5175</b>	<b>107.5175</b>	<b>0.0232</b>	<b>0.0000</b>	<b>108.0963</b>

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**3.3 Building Construction - 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	1.3800e-003	0.0414	0.0110	1.0000e-004	2.4100e-003	2.0000e-004	2.6100e-003	7.0000e-004	1.9000e-004	8.9000e-004	0.0000	9.5782	9.5782	7.3000e-004	0.0000	9.5965
Worker	0.0223	0.0165	0.1619	4.9000e-004	0.0485	3.5000e-004	0.0489	0.0129	3.2000e-004	0.0132	0.0000	43.8550	43.8550	1.3200e-003	0.0000	43.8879
<b>Total</b>	<b>0.0237</b>	<b>0.0579</b>	<b>0.1729</b>	<b>5.9000e-004</b>	<b>0.0509</b>	<b>5.5000e-004</b>	<b>0.0515</b>	<b>0.0136</b>	<b>5.1000e-004</b>	<b>0.0141</b>	<b>0.0000</b>	<b>53.4331</b>	<b>53.4331</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>53.4844</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	0.0502	0.7081	0.7812	1.2700e-003		0.0426	0.0426		0.0413	0.0413	0.0000	107.5174	107.5174	0.0232	0.0000	108.0962
<b>Total</b>	<b>0.0502</b>	<b>0.7081</b>	<b>0.7812</b>	<b>1.2700e-003</b>		<b>0.0426</b>	<b>0.0426</b>		<b>0.0413</b>	<b>0.0413</b>	<b>0.0000</b>	<b>107.5174</b>	<b>107.5174</b>	<b>0.0232</b>	<b>0.0000</b>	<b>108.0962</b>

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**3.3 Building Construction - 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	1.3800e-003	0.0414	0.0110	1.0000e-004	2.4100e-003	2.0000e-004	2.6100e-003	7.0000e-004	1.9000e-004	8.9000e-004	0.0000	9.5782	9.5782	7.3000e-004	0.0000	9.5965
Worker	0.0223	0.0165	0.1619	4.9000e-004	0.0485	3.5000e-004	0.0489	0.0129	3.2000e-004	0.0132	0.0000	43.8550	43.8550	1.3200e-003	0.0000	43.8879
<b>Total</b>	<b>0.0237</b>	<b>0.0579</b>	<b>0.1729</b>	<b>5.9000e-004</b>	<b>0.0509</b>	<b>5.5000e-004</b>	<b>0.0515</b>	<b>0.0136</b>	<b>5.1000e-004</b>	<b>0.0141</b>	<b>0.0000</b>	<b>53.4331</b>	<b>53.4331</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>53.4844</b>

**3.4 Demolition - 2019**

**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	0.0247	0.2394	0.1598	2.7000e-004		0.0128	0.0128		0.0120	0.0120	0.0000	24.1467	24.1467	6.0100e-003	0.0000	24.2969
<b>Total</b>	<b>0.0247</b>	<b>0.2394</b>	<b>0.1598</b>	<b>2.7000e-004</b>		<b>0.0128</b>	<b>0.0128</b>		<b>0.0120</b>	<b>0.0120</b>	<b>0.0000</b>	<b>24.1467</b>	<b>24.1467</b>	<b>6.0100e-003</b>	<b>0.0000</b>	<b>24.2969</b>

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**3.4 Demolition - 2019**

**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	4.1000e-004	3.2000e-004	3.0700e-003	1.0000e-005	8.4000e-004	1.0000e-005	8.5000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7859	0.7859	3.0000e-005	0.0000	0.7866
<b>Total</b>	<b>4.1000e-004</b>	<b>3.2000e-004</b>	<b>3.0700e-003</b>	<b>1.0000e-005</b>	<b>8.4000e-004</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.7859</b>	<b>0.7859</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.7866</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	0.0148	0.1797	0.1637	2.7000e-004		9.7700e-003	9.7700e-003		9.3600e-003	9.3600e-003	0.0000	24.1467	24.1467	6.0100e-003	0.0000	24.2969
<b>Total</b>	<b>0.0148</b>	<b>0.1797</b>	<b>0.1637</b>	<b>2.7000e-004</b>		<b>9.7700e-003</b>	<b>9.7700e-003</b>		<b>9.3600e-003</b>	<b>9.3600e-003</b>	<b>0.0000</b>	<b>24.1467</b>	<b>24.1467</b>	<b>6.0100e-003</b>	<b>0.0000</b>	<b>24.2969</b>

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**3.4 Demolition - 2019**

**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	4.1000e-004	3.2000e-004	3.0700e-003	1.0000e-005	8.4000e-004	1.0000e-005	8.5000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7859	0.7859	3.0000e-005	0.0000	0.7866
<b>Total</b>	<b>4.1000e-004</b>	<b>3.2000e-004</b>	<b>3.0700e-003</b>	<b>1.0000e-005</b>	<b>8.4000e-004</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.7859</b>	<b>0.7859</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.7866</b>

**3.5 Grading - 2019**

**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					0.0367	0.0000	0.0367	0.0201	0.0000	0.0201	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0827	0.7483	0.7359	1.2000e-003		0.0413	0.0413		0.0391	0.0391	0.0000	104.6221	104.6221	0.0249	0.0000	105.2451
<b>Total</b>	<b>0.0827</b>	<b>0.7483</b>	<b>0.7359</b>	<b>1.2000e-003</b>	<b>0.0367</b>	<b>0.0413</b>	<b>0.0781</b>	<b>0.0201</b>	<b>0.0391</b>	<b>0.0592</b>	<b>0.0000</b>	<b>104.6221</b>	<b>104.6221</b>	<b>0.0249</b>	<b>0.0000</b>	<b>105.2451</b>

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**3.5 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	9.6500e-003	2.1100e-003	2.0000e-005	5.4000e-004	4.0000e-005	5.8000e-004	1.5000e-004	3.0000e-005	1.8000e-004	0.0000	2.4557	2.4557	2.2000e-004	0.0000	2.4613
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	1.9100e-003	1.4700e-003	0.0142	4.0000e-005	3.8900e-003	3.0000e-005	3.9200e-003	1.0300e-003	3.0000e-005	1.0600e-003	0.0000	3.6302	3.6302	1.2000e-004	0.0000	3.6331
<b>Total</b>	<b>2.1900e-003</b>	<b>0.0111</b>	<b>0.0163</b>	<b>6.0000e-005</b>	<b>4.4300e-003</b>	<b>7.0000e-005</b>	<b>4.5000e-003</b>	<b>1.1800e-003</b>	<b>6.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>6.0859</b>	<b>6.0859</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>6.0944</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					0.0165	0.0000	0.0165	9.0400e-003	0.0000	9.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0458	0.6077	0.7600	1.2000e-003		0.0352	0.0352		0.0343	0.0343	0.0000	104.6220	104.6220	0.0249	0.0000	105.2450
<b>Total</b>	<b>0.0458</b>	<b>0.6077</b>	<b>0.7600</b>	<b>1.2000e-003</b>	<b>0.0165</b>	<b>0.0352</b>	<b>0.0517</b>	<b>9.0400e-003</b>	<b>0.0343</b>	<b>0.0433</b>	<b>0.0000</b>	<b>104.6220</b>	<b>104.6220</b>	<b>0.0249</b>	<b>0.0000</b>	<b>105.2450</b>



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**3.5 Grading - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	9.6500e-003	2.1100e-003	2.0000e-005	5.4000e-004	4.0000e-005	5.8000e-004	1.5000e-004	3.0000e-005	1.8000e-004	0.0000	2.4557	2.4557	2.2000e-004	0.0000	2.4613
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	1.9100e-003	1.4700e-003	0.0142	4.0000e-005	3.8900e-003	3.0000e-005	3.9200e-003	1.0300e-003	3.0000e-005	1.0600e-003	0.0000	3.6302	3.6302	1.2000e-004	0.0000	3.6331
<b>Total</b>	<b>2.1900e-003</b>	<b>0.0111</b>	<b>0.0163</b>	<b>6.0000e-005</b>	<b>4.4300e-003</b>	<b>7.0000e-005</b>	<b>4.5000e-003</b>	<b>1.1800e-003</b>	<b>6.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>6.0859</b>	<b>6.0859</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>6.0944</b>

**3.6 Paving - 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					
Off-Road	0.0362	0.3321	0.3185	5.2000e-004		0.0179	0.0179		0.0166	0.0166	0.0000	43.0006	43.0006	0.0122	0.0000	43.3061
Paving	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>0.0362</b>	<b>0.3321</b>	<b>0.3185</b>	<b>5.2000e-004</b>		<b>0.0179</b>	<b>0.0179</b>		<b>0.0166</b>	<b>0.0166</b>	<b>0.0000</b>	<b>43.0006</b>	<b>43.0006</b>	<b>0.0122</b>	<b>0.0000</b>	<b>43.3061</b>

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**3.6 Paving - 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	2.6500e-003	1.9600e-003	0.0193	6.0000e-005	5.7700e-003	4.0000e-005	5.8200e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	5.2191	5.2191	1.6000e-004	0.0000	5.2230
<b>Total</b>	<b>2.6500e-003</b>	<b>1.9600e-003</b>	<b>0.0193</b>	<b>6.0000e-005</b>	<b>5.7700e-003</b>	<b>4.0000e-005</b>	<b>5.8200e-003</b>	<b>1.5300e-003</b>	<b>4.0000e-005</b>	<b>1.5700e-003</b>	<b>0.0000</b>	<b>5.2191</b>	<b>5.2191</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>5.2230</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	0.0194	0.2551	0.3316	5.2000e-004		0.0144	0.0144		0.0141	0.0141	0.0000	43.0005	43.0005	0.0122	0.0000	43.3061
Paving	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>0.0194</b>	<b>0.2551</b>	<b>0.3316</b>	<b>5.2000e-004</b>		<b>0.0144</b>	<b>0.0144</b>		<b>0.0141</b>	<b>0.0141</b>	<b>0.0000</b>	<b>43.0005</b>	<b>43.0005</b>	<b>0.0122</b>	<b>0.0000</b>	<b>43.3061</b>

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**3.6 Paving - 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	2.6500e-003	1.9600e-003	0.0193	6.0000e-005	5.7700e-003	4.0000e-005	5.8200e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	5.2191	5.2191	1.6000e-004	0.0000	5.2230
<b>Total</b>	<b>2.6500e-003</b>	<b>1.9600e-003</b>	<b>0.0193</b>	<b>6.0000e-005</b>	<b>5.7700e-003</b>	<b>4.0000e-005</b>	<b>5.8200e-003</b>	<b>1.5300e-003</b>	<b>4.0000e-005</b>	<b>1.5700e-003</b>	<b>0.0000</b>	<b>5.2191</b>	<b>5.2191</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>5.2230</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

NCPWF IPS - San Diego County APCD Air District, 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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N



NCPWF IPS - San Diego County APCD Air District, Annual

**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr					
General Light Industry	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	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>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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>

NCPWF IPS - San Diego County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

NCPWF IPS - San Diego County APCD Air District, 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	0.0293	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Unmitigated	0.0293	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-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	3.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0262					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	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
<b>Total</b>	<b>0.0293</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.3000e-004</b>



NCPWF IPS - San Diego County APCD Air District, 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	3.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0262					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	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
<b>Total</b>	<b>0.0293</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.3000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

NCPWF IPS - San Diego County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0476	3.4000e-004	1.0000e-005	0.0586
Unmitigated	0.0476	3.4000e-004	1.0000e-005	0.0586

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.0104 / 0	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>		<b>0.0476</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>0.0586</b>

NCPWF IPS - San Diego County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.0104 / 0	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>		<b>0.0476</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>0.0586</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0589	3.4800e-003	0.0000	0.1458
Unmitigated	0.0589	3.4800e-003	0.0000	0.1458

NCPWF IPS - San Diego County APCD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0.29	0.0589	3.4800e-003	0.0000	0.1458
<b>Total</b>		<b>0.0589</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>0.1458</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0.29	0.0589	3.4800e-003	0.0000	0.1458
<b>Total</b>		<b>0.0589</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>0.1458</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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NCPWF IPS - San Diego County APCD Air District, 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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NCPWF IPS - San Diego County APCD Air District, Summer

**NCPWF IPS**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	6.70	1000sqft	0.15	6,700.00	1

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

NCPWF IPS - San Diego County APCD Air District, Summer

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description.

Construction Phase - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Grading - See Section 7.2.1 for Construction Details.

Demolition - No demolition of structures anticipated.

Trips and VMT - See Section 7.2.1 for Construction Details.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1.

Vehicle Trips - No mobile source emissions.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SDAPCD Rule 67.0.1.

Landscape Equipment - CalEEMod defaults.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - EPA waste generation of 4.46 lb/person/day.

Construction Off-road Equipment Mitigation - Per MM-AQ-1, all construction equipment will be at least Tier 3.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00





NCPWF IPS - San Diego County APCD Air District, Summer

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	14.00
tblConstructionPhase	NumDays	100.00	260.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	2.00	97.00
tblConstructionPhase	NumDays	5.00	80.00
tblConstructionPhase	PhaseEndDate	1/6/2019	7/7/2020
tblConstructionPhase	PhaseEndDate	1/6/2019	6/17/2020
tblConstructionPhase	PhaseEndDate	1/6/2019	2/4/2019
tblConstructionPhase	PhaseEndDate	1/6/2019	6/19/2019
tblConstructionPhase	PhaseEndDate	1/6/2019	10/7/2020
tblConstructionPhase	PhaseStartDate	1/7/2019	6/18/2020
tblConstructionPhase	PhaseStartDate	1/7/2019	6/20/2019
tblConstructionPhase	PhaseStartDate	1/7/2019	2/5/2019
tblConstructionPhase	PhaseStartDate	1/7/2019	6/18/2020
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	0.00	0.30
tblGrading	MaterialImported	0.00	943.00
tblLandUse	Population	0.00	1.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.29

NCPWF IPS - San Diego County APCD Air District, Summer

tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblSolidWaste	SolidWasteGenerationRate	8.31	0.29
tblTripsAndVMT	HaulingTripNumber	118.00	63.00
tblTripsAndVMT	VendorTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	100.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	25.00	10.00
tblTripsAndVMT	WorkerTripNumber	20.00	18.00

## NCPWF IPS - San Diego County APCD Air District, Summer

tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	1,549,375.00	10,400.00

## 2.0 Emissions Summary

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NCPWF IPS - San Diego County APCD Air District, 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	0.1605	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4700e-003	1.4700e-003	0.0000		1.5600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.1605</b>	<b>1.0000e-005</b>	<b>6.9000e-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>1.4700e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5600e-003</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	0.1605	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4700e-003	1.4700e-003	0.0000		1.5600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.1605</b>	<b>1.0000e-005</b>	<b>6.9000e-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>1.4700e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5600e-003</b>

## NCPWF IPS - San Diego County APCD Air District, 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	Architectural Coating	Architectural Coating	6/18/2020	7/7/2020	5	14	
2	Building Construction	Building Construction	6/20/2019	6/17/2020	5	260	
3	Demolition	Demolition	1/7/2019	2/4/2019	5	21	
4	Grading	Grading	2/5/2019	6/19/2019	5	97	
5	Paving	Paving	6/18/2020	10/7/2020	5	80	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,050; Non-Residential Outdoor: 3,350; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## NCPWF IPS - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Dumpers/Tenders	1	8.00	16	0.38
Demolition	Dumpers/Tenders	2	8.00	16	0.38
Demolition	Excavators	1	8.00	158	0.38
	Air Compressors	1	8.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Dumpers/Tenders	2	8.00	16	0.38
Building Construction	Forklifts	2	6.00	89	0.20
Grading	Rubber Tired Dozers	1	1.00	247	0.40
	Cranes	2	8.00	231	0.29
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Welders	1	8.00	46	0.45
Grading	Excavators	2	8.00	158	0.38
Grading	Plate Compactors	2	8.00	8	0.43
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

**Trips and VMT**

NCPWF IPS - San Diego County APCD Air District, 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
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	100.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	7	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	10.00	0.00	63.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Architectural Coating - 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					
Archit. Coating	4.4364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>4.6785</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>



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**3.2 Architectural Coating - 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	0.0220	0.0148	0.1701	5.1000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		50.5648	50.5648	1.5100e-003		50.6026
<b>Total</b>	<b>0.0220</b>	<b>0.0148</b>	<b>0.1701</b>	<b>5.1000e-004</b>	<b>0.0493</b>	<b>3.5000e-004</b>	<b>0.0496</b>	<b>0.0131</b>	<b>3.2000e-004</b>	<b>0.0134</b>		<b>50.5648</b>	<b>50.5648</b>	<b>1.5100e-003</b>		<b>50.6026</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					
Archit. Coating	4.4364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>4.4958</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

NCPWF IPS - San Diego County APCD Air District, Summer

**3.2 Architectural Coating - 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	0.0220	0.0148	0.1701	5.1000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		50.5648	50.5648	1.5100e-003		50.6026
<b>Total</b>	<b>0.0220</b>	<b>0.0148</b>	<b>0.1701</b>	<b>5.1000e-004</b>	<b>0.0493</b>	<b>3.5000e-004</b>	<b>0.0496</b>	<b>0.0131</b>	<b>3.2000e-004</b>	<b>0.0134</b>		<b>50.5648</b>	<b>50.5648</b>	<b>1.5100e-003</b>		<b>50.6026</b>

**3.3 Building Construction - 2019**

**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	1.8877	16.2737	12.2687	0.0210		0.9270	0.9270		0.8810	0.8810		1,983.0193	1,983.0193	0.4303		1,993.7754
<b>Total</b>	<b>1.8877</b>	<b>16.2737</b>	<b>12.2687</b>	<b>0.0210</b>		<b>0.9270</b>	<b>0.9270</b>		<b>0.8810</b>	<b>0.8810</b>		<b>1,983.0193</b>	<b>1,983.0193</b>	<b>0.4303</b>		<b>1,993.7754</b>

NCPWF IPS - San Diego County APCD Air District, Summer

**3.3 Building Construction - 2019**

**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	0.0276	0.7439	0.1921	1.6600e-003	0.0406	5.1800e-003	0.0458	0.0117	4.9500e-003	0.0166		177.6100	177.6100	0.0137		177.9528
Worker	0.3927	0.2740	3.0941	8.7400e-003	0.8215	5.8600e-003	0.8273	0.2179	5.4000e-003	0.2233		870.1996	870.1996	0.0278		870.8943
<b>Total</b>	<b>0.4203</b>	<b>1.0180</b>	<b>3.2862</b>	<b>0.0104</b>	<b>0.8621</b>	<b>0.0110</b>	<b>0.8731</b>	<b>0.2296</b>	<b>0.0104</b>	<b>0.2399</b>		<b>1,047.8096</b>	<b>1,047.8096</b>	<b>0.0415</b>		<b>1,048.8471</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	0.8729	12.0953	12.9520	0.0210		0.7440	0.7440		0.7203	0.7203	0.0000	1,983.0193	1,983.0193	0.4303		1,993.7754
<b>Total</b>	<b>0.8729</b>	<b>12.0953</b>	<b>12.9520</b>	<b>0.0210</b>		<b>0.7440</b>	<b>0.7440</b>		<b>0.7203</b>	<b>0.7203</b>	<b>0.0000</b>	<b>1,983.0193</b>	<b>1,983.0193</b>	<b>0.4303</b>		<b>1,993.7754</b>

NCPWF IPS - San Diego County APCD Air District, Summer

**3.3 Building Construction - 2019**

**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	0.0276	0.7439	0.1921	1.6600e-003	0.0406	5.1800e-003	0.0458	0.0117	4.9500e-003	0.0166		177.6100	177.6100	0.0137		177.9528
Worker	0.3927	0.2740	3.0941	8.7400e-003	0.8215	5.8600e-003	0.8273	0.2179	5.4000e-003	0.2233		870.1996	870.1996	0.0278		870.8943
<b>Total</b>	<b>0.4203</b>	<b>1.0180</b>	<b>3.2862</b>	<b>0.0104</b>	<b>0.8621</b>	<b>0.0110</b>	<b>0.8731</b>	<b>0.2296</b>	<b>0.0104</b>	<b>0.2399</b>		<b>1,047.8096</b>	<b>1,047.8096</b>	<b>0.0415</b>		<b>1,048.8471</b>

**3.3 Building Construction - 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					
Off-Road	1.7000	14.8762	11.9896	0.0210		0.8073	0.8073		0.7674	0.7674		1,958.9720	1,958.9720	0.4218		1,969.5173
<b>Total</b>	<b>1.7000</b>	<b>14.8762</b>	<b>11.9896</b>	<b>0.0210</b>		<b>0.8073</b>	<b>0.8073</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,958.9720</b>	<b>1,958.9720</b>	<b>0.4218</b>		<b>1,969.5173</b>

NCPWF IPS - San Diego County APCD Air District, Summer

**3.3 Building Construction - 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	0.0224	0.6766	0.1724	1.6400e-003	0.0406	3.3100e-003	0.0439	0.0117	3.1700e-003	0.0149		176.4241	176.4241	0.0130		176.7494
Worker	0.3670	0.2472	2.8346	8.4600e-003	0.8215	5.7600e-003	0.8272	0.2179	5.3100e-003	0.2232		842.7471	842.7471	0.0252		843.3762
<b>Total</b>	<b>0.3894</b>	<b>0.9238</b>	<b>3.0070</b>	<b>0.0101</b>	<b>0.8621</b>	<b>9.0700e-003</b>	<b>0.8712</b>	<b>0.2296</b>	<b>8.4800e-003</b>	<b>0.2381</b>		<b>1,019.1711</b>	<b>1,019.1711</b>	<b>0.0382</b>		<b>1,020.1256</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	0.8294	11.7040	12.9118	0.0210		0.7037	0.7037		0.6832	0.6832	0.0000	1,958.9720	1,958.9720	0.4218		1,969.5173
<b>Total</b>	<b>0.8294</b>	<b>11.7040</b>	<b>12.9118</b>	<b>0.0210</b>		<b>0.7037</b>	<b>0.7037</b>		<b>0.6832</b>	<b>0.6832</b>	<b>0.0000</b>	<b>1,958.9720</b>	<b>1,958.9720</b>	<b>0.4218</b>		<b>1,969.5173</b>

NCPWF IPS - San Diego County APCD Air District, Summer

**3.3 Building Construction - 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	0.0224	0.6766	0.1724	1.6400e-003	0.0406	3.3100e-003	0.0439	0.0117	3.1700e-003	0.0149		176.4241	176.4241	0.0130		176.7494
Worker	0.3670	0.2472	2.8346	8.4600e-003	0.8215	5.7600e-003	0.8272	0.2179	5.3100e-003	0.2232		842.7471	842.7471	0.0252		843.3762
<b>Total</b>	<b>0.3894</b>	<b>0.9238</b>	<b>3.0070</b>	<b>0.0101</b>	<b>0.8621</b>	<b>9.0700e-003</b>	<b>0.8712</b>	<b>0.2296</b>	<b>8.4800e-003</b>	<b>0.2381</b>		<b>1,019.1711</b>	<b>1,019.1711</b>	<b>0.0382</b>		<b>1,020.1256</b>

**3.4 Demolition - 2019**

**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	2.3550	22.7953	15.2215	0.0261		1.2180	1.2180		1.1418	1.1418		2,534.9688	2,534.9688	0.6308		2,550.7378
<b>Total</b>	<b>2.3550</b>	<b>22.7953</b>	<b>15.2215</b>	<b>0.0261</b>		<b>1.2180</b>	<b>1.2180</b>		<b>1.1418</b>	<b>1.1418</b>		<b>2,534.9688</b>	<b>2,534.9688</b>	<b>0.6308</b>		<b>2,550.7378</b>

NCPWF IPS - San Diego County APCD Air District, Summer

**3.4 Demolition - 2019**

**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	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
<b>Total</b>	<b>0.0393</b>	<b>0.0274</b>	<b>0.3094</b>	<b>8.7000e-004</b>	<b>0.0822</b>	<b>5.9000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.4000e-004</b>	<b>0.0223</b>		<b>87.0200</b>	<b>87.0200</b>	<b>2.7800e-003</b>		<b>87.0894</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	1.4047	17.1119	15.5888	0.0261		0.9308	0.9308		0.8916	0.8916	0.0000	2,534.9688	2,534.9688	0.6308		2,550.7378
<b>Total</b>	<b>1.4047</b>	<b>17.1119</b>	<b>15.5888</b>	<b>0.0261</b>		<b>0.9308</b>	<b>0.9308</b>		<b>0.8916</b>	<b>0.8916</b>	<b>0.0000</b>	<b>2,534.9688</b>	<b>2,534.9688</b>	<b>0.6308</b>		<b>2,550.7378</b>

NCPWF IPS - San Diego County APCD Air District, Summer

**3.4 Demolition - 2019**

**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	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
<b>Total</b>	<b>0.0393</b>	<b>0.0274</b>	<b>0.3094</b>	<b>8.7000e-004</b>	<b>0.0822</b>	<b>5.9000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.4000e-004</b>	<b>0.0223</b>		<b>87.0200</b>	<b>87.0200</b>	<b>2.7800e-003</b>		<b>87.0894</b>

**3.5 Grading - 2019**

**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					0.7574	0.0000	0.7574	0.4143	0.0000	0.4143			0.0000			0.0000
Off-Road	1.7044	15.4281	15.1734	0.0248		0.8524	0.8524		0.8070	0.8070		2,377.8589	2,377.8589	0.5664		2,392.0187
<b>Total</b>	<b>1.7044</b>	<b>15.4281</b>	<b>15.1734</b>	<b>0.0248</b>	<b>0.7574</b>	<b>0.8524</b>	<b>1.6098</b>	<b>0.4143</b>	<b>0.8070</b>	<b>1.2213</b>		<b>2,377.8589</b>	<b>2,377.8589</b>	<b>0.5664</b>		<b>2,392.0187</b>



NCPWF IPS - San Diego County APCD Air District, Summer

**3.5 Grading - 2019**

**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	5.6400e-003	0.1951	0.0421	5.2000e-004	0.0114	7.4000e-004	0.0121	3.1100e-003	7.0000e-004	3.8100e-003		56.2111	56.2111	4.9700e-003		56.3355
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	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
<b>Total</b>	<b>0.0449</b>	<b>0.2225</b>	<b>0.3515</b>	<b>1.3900e-003</b>	<b>0.0935</b>	<b>1.3300e-003</b>	<b>0.0948</b>	<b>0.0249</b>	<b>1.2400e-003</b>	<b>0.0261</b>		<b>143.2311</b>	<b>143.2311</b>	<b>7.7500e-003</b>		<b>143.4249</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					0.3408	0.0000	0.3408	0.1865	0.0000	0.1865			0.0000			0.0000
Off-Road	0.9445	12.5296	15.6700	0.0248		0.7254	0.7254		0.7067	0.7067	0.0000	2,377.8589	2,377.8589	0.5664		2,392.0187
<b>Total</b>	<b>0.9445</b>	<b>12.5296</b>	<b>15.6700</b>	<b>0.0248</b>	<b>0.3408</b>	<b>0.7254</b>	<b>1.0662</b>	<b>0.1865</b>	<b>0.7067</b>	<b>0.8932</b>	<b>0.0000</b>	<b>2,377.8589</b>	<b>2,377.8589</b>	<b>0.5664</b>		<b>2,392.0187</b>

NCPWF IPS - San Diego County APCD Air District, Summer

**3.5 Grading - 2019**

**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	5.6400e-003	0.1951	0.0421	5.2000e-004	0.0114	7.4000e-004	0.0121	3.1100e-003	7.0000e-004	3.8100e-003		56.2111	56.2111	4.9700e-003		56.3355
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	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
<b>Total</b>	<b>0.0449</b>	<b>0.2225</b>	<b>0.3515</b>	<b>1.3900e-003</b>	<b>0.0935</b>	<b>1.3300e-003</b>	<b>0.0948</b>	<b>0.0249</b>	<b>1.2400e-003</b>	<b>0.0261</b>		<b>143.2311</b>	<b>143.2311</b>	<b>7.7500e-003</b>		<b>143.4249</b>

**3.6 Paving - 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					
Off-Road	0.9039	8.3029	7.9626	0.0129		0.4464	0.4464		0.4155	0.4155		1,185.0002	1,185.0002	0.3368		1,193.4204
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9039</b>	<b>8.3029</b>	<b>7.9626</b>	<b>0.0129</b>		<b>0.4464</b>	<b>0.4464</b>		<b>0.4155</b>	<b>0.4155</b>		<b>1,185.0002</b>	<b>1,185.0002</b>	<b>0.3368</b>		<b>1,193.4204</b>

NCPWF IPS - San Diego County APCD Air District, Summer

**3.6 Paving - 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	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
<b>Total</b>	<b>0.0661</b>	<b>0.0445</b>	<b>0.5102</b>	<b>1.5200e-003</b>	<b>0.1479</b>	<b>1.0400e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.6000e-004</b>	<b>0.0402</b>		<b>151.6945</b>	<b>151.6945</b>	<b>4.5300e-003</b>		<b>151.8077</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	0.4855	6.3769	8.2906	0.0129		0.3600	0.3600		0.3522	0.3522	0.0000	1,185.0002	1,185.0002	0.3368		1,193.4204
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4855</b>	<b>6.3769</b>	<b>8.2906</b>	<b>0.0129</b>		<b>0.3600</b>	<b>0.3600</b>		<b>0.3522</b>	<b>0.3522</b>	<b>0.0000</b>	<b>1,185.0002</b>	<b>1,185.0002</b>	<b>0.3368</b>		<b>1,193.4204</b>

NCPWF IPS - San Diego County APCD Air District, Summer

**3.6 Paving - 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	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
<b>Total</b>	<b>0.0661</b>	<b>0.0445</b>	<b>0.5102</b>	<b>1.5200e-003</b>	<b>0.1479</b>	<b>1.0400e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.6000e-004</b>	<b>0.0402</b>		<b>151.6945</b>	<b>151.6945</b>	<b>4.5300e-003</b>		<b>151.8077</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

NCPWF IPS - San Diego County APCD Air District, 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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

NCPWF IPS - San Diego County APCD Air District, Summer

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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	
<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>	

NCPWF IPS - San Diego County APCD Air District, Summer

**5.2 Energy by Land Use - Natural Gas**

**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					
General Light Industry	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**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

NCPWF IPS - San Diego County APCD Air District, 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	0.1605	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4700e-003	1.4700e-003	0.0000		1.5600e-003
Unmitigated	0.1605	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4700e-003	1.4700e-003	0.0000		1.5600e-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	0.0170					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1434					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4700e-003	1.4700e-003	0.0000		1.5600e-003
<b>Total</b>	<b>0.1605</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.4700e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>		<b>1.5600e-003</b>



NCPWF IPS - San Diego County APCD Air District, 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	0.0170					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1434					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4700e-003	1.4700e-003	0.0000		1.5600e-003
<b>Total</b>	<b>0.1605</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.4700e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>		<b>1.5600e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators

NCPWF IPS - San Diego County APCD Air District, 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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NCPWF IPS - San Diego County APCD Air District, Winter

**NCPWF IPS**

**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	6.70	1000sqft	0.15	6,700.00	1

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

NCPWF IPS - San Diego County APCD Air District, Winter

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description.

Construction Phase - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Grading - See Section 7.2.1 for Construction Details.

Demolition - No demolition of structures anticipated.

Trips and VMT - See Section 7.2.1 for Construction Details.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1.

Vehicle Trips - No mobile source emissions.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SDAPCD Rule 67.0.1.

Landscape Equipment - CalEEMod defaults.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - EPA waste generation of 4.46 lb/person/day.

Construction Off-road Equipment Mitigation - Per MM-AQ-1, all construction equipment will be at least Tier 3.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00



NCPWF IPS - San Diego County APCD Air District, Winter

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	5.00	14.00
tblConstructionPhase	NumDays	100.00	260.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	2.00	97.00
tblConstructionPhase	NumDays	5.00	80.00
tblConstructionPhase	PhaseEndDate	1/6/2019	7/7/2020
tblConstructionPhase	PhaseEndDate	1/6/2019	6/17/2020
tblConstructionPhase	PhaseEndDate	1/6/2019	2/4/2019
tblConstructionPhase	PhaseEndDate	1/6/2019	6/19/2019
tblConstructionPhase	PhaseEndDate	1/6/2019	10/7/2020
tblConstructionPhase	PhaseStartDate	1/7/2019	6/18/2020
tblConstructionPhase	PhaseStartDate	1/7/2019	6/20/2019
tblConstructionPhase	PhaseStartDate	1/7/2019	2/5/2019
tblConstructionPhase	PhaseStartDate	1/7/2019	6/18/2020
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	0.00	0.30
tblGrading	MaterialImported	0.00	943.00
tblLandUse	Population	0.00	1.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.29

NCPWF IPS - San Diego County APCD Air District, Winter

tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblSolidWaste	SolidWasteGenerationRate	8.31	0.29
tblTripsAndVMT	HaulingTripNumber	118.00	63.00
tblTripsAndVMT	VendorTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	100.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	25.00	10.00
tblTripsAndVMT	WorkerTripNumber	20.00	18.00

## NCPWF IPS - San Diego County APCD Air District, Winter

tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	1,549,375.00	10,400.00

## 2.0 Emissions Summary

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NCPWF IPS - San Diego County APCD Air District, 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	0.1605	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4700e-003	1.4700e-003	0.0000		1.5600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.1605</b>	<b>1.0000e-005</b>	<b>6.9000e-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>1.4700e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5600e-003</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	0.1605	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4700e-003	1.4700e-003	0.0000		1.5600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.1605</b>	<b>1.0000e-005</b>	<b>6.9000e-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>1.4700e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5600e-003</b>

## NCPWF IPS - San Diego County APCD Air District, 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

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	6/18/2020	7/7/2020	5	14	
2	Building Construction	Building Construction	6/20/2019	6/17/2020	5	260	
3	Demolition	Demolition	1/7/2019	2/4/2019	5	21	
4	Grading	Grading	2/5/2019	6/19/2019	5	97	
5	Paving	Paving	6/18/2020	10/7/2020	5	80	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 10,050; Non-Residential Outdoor: 3,350; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## NCPWF IPS - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Dumpers/Tenders	1	8.00	16	0.38
Demolition	Dumpers/Tenders	2	8.00	16	0.38
Demolition	Excavators	1	8.00	158	0.38
	Air Compressors	1	8.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Dumpers/Tenders	2	8.00	16	0.38
Building Construction	Forklifts	2	6.00	89	0.20
Grading	Rubber Tired Dozers	1	1.00	247	0.40
	Cranes	2	8.00	231	0.29
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Welders	1	8.00	46	0.45
Grading	Excavators	2	8.00	158	0.38
Grading	Plate Compactors	2	8.00	8	0.43
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

**Trips and VMT**

NCPWF IPS - San Diego County APCD Air District, 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
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	100.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	7	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	10.00	0.00	63.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Architectural Coating - 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					
Archit. Coating	4.4364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>4.6785</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

NCPWF IPS - San Diego County APCD Air District, Winter

**3.2 Architectural Coating - 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	0.0249	0.0167	0.1604	4.8000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		47.4679	47.4679	1.4300e-003		47.5037
<b>Total</b>	<b>0.0249</b>	<b>0.0167</b>	<b>0.1604</b>	<b>4.8000e-004</b>	<b>0.0493</b>	<b>3.5000e-004</b>	<b>0.0496</b>	<b>0.0131</b>	<b>3.2000e-004</b>	<b>0.0134</b>		<b>47.4679</b>	<b>47.4679</b>	<b>1.4300e-003</b>		<b>47.5037</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					
Archit. Coating	4.4364					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>4.4958</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

NCPWF IPS - San Diego County APCD Air District, Winter

**3.2 Architectural Coating - 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	0.0249	0.0167	0.1604	4.8000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		47.4679	47.4679	1.4300e-003		47.5037
<b>Total</b>	<b>0.0249</b>	<b>0.0167</b>	<b>0.1604</b>	<b>4.8000e-004</b>	<b>0.0493</b>	<b>3.5000e-004</b>	<b>0.0496</b>	<b>0.0131</b>	<b>3.2000e-004</b>	<b>0.0134</b>		<b>47.4679</b>	<b>47.4679</b>	<b>1.4300e-003</b>		<b>47.5037</b>

**3.3 Building Construction - 2019**

**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	1.8877	16.2737	12.2687	0.0210		0.9270	0.9270		0.8810	0.8810		1,983.0193	1,983.0193	0.4303		1,993.7754
<b>Total</b>	<b>1.8877</b>	<b>16.2737</b>	<b>12.2687</b>	<b>0.0210</b>		<b>0.9270</b>	<b>0.9270</b>		<b>0.8810</b>	<b>0.8810</b>		<b>1,983.0193</b>	<b>1,983.0193</b>	<b>0.4303</b>		<b>1,993.7754</b>

NCPWF IPS - San Diego County APCD Air District, Winter

**3.3 Building Construction - 2019**

**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	0.0288	0.7445	0.2129	1.6200e-003	0.0406	5.2700e-003	0.0459	0.0117	5.0400e-003	0.0167		173.1002	173.1002	0.0146		173.4648
Worker	0.4441	0.3078	2.9239	8.2000e-003	0.8215	5.8600e-003	0.8273	0.2179	5.4000e-003	0.2233		816.9138	816.9138	0.0264		817.5727
<b>Total</b>	<b>0.4729</b>	<b>1.0523</b>	<b>3.1369</b>	<b>9.8200e-003</b>	<b>0.8621</b>	<b>0.0111</b>	<b>0.8732</b>	<b>0.2296</b>	<b>0.0104</b>	<b>0.2400</b>		<b>990.0139</b>	<b>990.0139</b>	<b>0.0410</b>		<b>991.0376</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	0.8729	12.0953	12.9520	0.0210		0.7440	0.7440		0.7203	0.7203	0.0000	1,983.0193	1,983.0193	0.4303		1,993.7754
<b>Total</b>	<b>0.8729</b>	<b>12.0953</b>	<b>12.9520</b>	<b>0.0210</b>		<b>0.7440</b>	<b>0.7440</b>		<b>0.7203</b>	<b>0.7203</b>	<b>0.0000</b>	<b>1,983.0193</b>	<b>1,983.0193</b>	<b>0.4303</b>		<b>1,993.7754</b>



NCPWF IPS - San Diego County APCD Air District, Winter

**3.3 Building Construction - 2019**

**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	0.0288	0.7445	0.2129	1.6200e-003	0.0406	5.2700e-003	0.0459	0.0117	5.0400e-003	0.0167		173.1002	173.1002	0.0146		173.4648
Worker	0.4441	0.3078	2.9239	8.2000e-003	0.8215	5.8600e-003	0.8273	0.2179	5.4000e-003	0.2233		816.9138	816.9138	0.0264		817.5727
<b>Total</b>	<b>0.4729</b>	<b>1.0523</b>	<b>3.1369</b>	<b>9.8200e-003</b>	<b>0.8621</b>	<b>0.0111</b>	<b>0.8732</b>	<b>0.2296</b>	<b>0.0104</b>	<b>0.2400</b>		<b>990.0139</b>	<b>990.0139</b>	<b>0.0410</b>		<b>991.0376</b>

**3.3 Building Construction - 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					
Off-Road	1.7000	14.8762	11.9896	0.0210		0.8073	0.8073		0.7674	0.7674		1,958.9720	1,958.9720	0.4218		1,969.5173
<b>Total</b>	<b>1.7000</b>	<b>14.8762</b>	<b>11.9896</b>	<b>0.0210</b>		<b>0.8073</b>	<b>0.8073</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,958.9720</b>	<b>1,958.9720</b>	<b>0.4218</b>		<b>1,969.5173</b>

NCPWF IPS - San Diego County APCD Air District, Winter

**3.3 Building Construction - 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	0.0235	0.6760	0.1913	1.6000e-003	0.0406	3.3700e-003	0.0440	0.0117	3.2300e-003	0.0149		171.8773	171.8773	0.0138		172.2231
Worker	0.4156	0.2776	2.6725	7.9400e-003	0.8215	5.7600e-003	0.8272	0.2179	5.3100e-003	0.2232		791.1320	791.1320	0.0238		791.7274
<b>Total</b>	<b>0.4391</b>	<b>0.9536</b>	<b>2.8638</b>	<b>9.5400e-003</b>	<b>0.8621</b>	<b>9.1300e-003</b>	<b>0.8712</b>	<b>0.2296</b>	<b>8.5400e-003</b>	<b>0.2381</b>		<b>963.0093</b>	<b>963.0093</b>	<b>0.0377</b>		<b>963.9505</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	0.8294	11.7040	12.9118	0.0210		0.7037	0.7037		0.6832	0.6832	0.0000	1,958.9720	1,958.9720	0.4218		1,969.5173
<b>Total</b>	<b>0.8294</b>	<b>11.7040</b>	<b>12.9118</b>	<b>0.0210</b>		<b>0.7037</b>	<b>0.7037</b>		<b>0.6832</b>	<b>0.6832</b>	<b>0.0000</b>	<b>1,958.9720</b>	<b>1,958.9720</b>	<b>0.4218</b>		<b>1,969.5173</b>

NCPWF IPS - San Diego County APCD Air District, Winter

**3.3 Building Construction - 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	0.0235	0.6760	0.1913	1.6000e-003	0.0406	3.3700e-003	0.0440	0.0117	3.2300e-003	0.0149		171.8773	171.8773	0.0138		172.2231
Worker	0.4156	0.2776	2.6725	7.9400e-003	0.8215	5.7600e-003	0.8272	0.2179	5.3100e-003	0.2232		791.1320	791.1320	0.0238		791.7274
<b>Total</b>	<b>0.4391</b>	<b>0.9536</b>	<b>2.8638</b>	<b>9.5400e-003</b>	<b>0.8621</b>	<b>9.1300e-003</b>	<b>0.8712</b>	<b>0.2296</b>	<b>8.5400e-003</b>	<b>0.2381</b>		<b>963.0093</b>	<b>963.0093</b>	<b>0.0377</b>		<b>963.9505</b>

**3.4 Demolition - 2019**

**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	2.3550	22.7953	15.2215	0.0261		1.2180	1.2180		1.1418	1.1418		2,534.9688	2,534.9688	0.6308		2,550.7378
<b>Total</b>	<b>2.3550</b>	<b>22.7953</b>	<b>15.2215</b>	<b>0.0261</b>		<b>1.2180</b>	<b>1.2180</b>		<b>1.1418</b>	<b>1.1418</b>		<b>2,534.9688</b>	<b>2,534.9688</b>	<b>0.6308</b>		<b>2,550.7378</b>

NCPWF IPS - San Diego County APCD Air District, Winter

**3.4 Demolition - 2019**

**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	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
<b>Total</b>	<b>0.0444</b>	<b>0.0308</b>	<b>0.2924</b>	<b>8.2000e-004</b>	<b>0.0822</b>	<b>5.9000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.4000e-004</b>	<b>0.0223</b>		<b>81.6914</b>	<b>81.6914</b>	<b>2.6400e-003</b>		<b>81.7573</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	1.4047	17.1119	15.5888	0.0261		0.9308	0.9308		0.8916	0.8916	0.0000	2,534.9688	2,534.9688	0.6308		2,550.7378
<b>Total</b>	<b>1.4047</b>	<b>17.1119</b>	<b>15.5888</b>	<b>0.0261</b>		<b>0.9308</b>	<b>0.9308</b>		<b>0.8916</b>	<b>0.8916</b>	<b>0.0000</b>	<b>2,534.9688</b>	<b>2,534.9688</b>	<b>0.6308</b>		<b>2,550.7378</b>

NCPWF IPS - San Diego County APCD Air District, Winter

**3.4 Demolition - 2019**

**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	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
<b>Total</b>	<b>0.0444</b>	<b>0.0308</b>	<b>0.2924</b>	<b>8.2000e-004</b>	<b>0.0822</b>	<b>5.9000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.4000e-004</b>	<b>0.0223</b>		<b>81.6914</b>	<b>81.6914</b>	<b>2.6400e-003</b>		<b>81.7573</b>

**3.5 Grading - 2019**

**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					0.7574	0.0000	0.7574	0.4143	0.0000	0.4143			0.0000			0.0000
Off-Road	1.7044	15.4281	15.1734	0.0248		0.8524	0.8524		0.8070	0.8070		2,377.8589	2,377.8589	0.5664		2,392.0187
<b>Total</b>	<b>1.7044</b>	<b>15.4281</b>	<b>15.1734</b>	<b>0.0248</b>	<b>0.7574</b>	<b>0.8524</b>	<b>1.6098</b>	<b>0.4143</b>	<b>0.8070</b>	<b>1.2213</b>		<b>2,377.8589</b>	<b>2,377.8589</b>	<b>0.5664</b>		<b>2,392.0187</b>

NCPWF IPS - San Diego County APCD Air District, Winter

**3.5 Grading - 2019**

**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	5.8000e-003	0.1971	0.0451	5.1000e-004	0.0114	7.5000e-004	0.0121	3.1100e-003	7.2000e-004	3.8300e-003		55.2652	55.2652	5.1500e-003		55.3941
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	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
<b>Total</b>	<b>0.0502</b>	<b>0.2279</b>	<b>0.3375</b>	<b>1.3300e-003</b>	<b>0.0935</b>	<b>1.3400e-003</b>	<b>0.0948</b>	<b>0.0249</b>	<b>1.2600e-003</b>	<b>0.0262</b>		<b>136.9566</b>	<b>136.9566</b>	<b>7.7900e-003</b>		<b>137.1514</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					0.3408	0.0000	0.3408	0.1865	0.0000	0.1865			0.0000			0.0000
Off-Road	0.9445	12.5296	15.6700	0.0248		0.7254	0.7254		0.7067	0.7067	0.0000	2,377.8589	2,377.8589	0.5664		2,392.0187
<b>Total</b>	<b>0.9445</b>	<b>12.5296</b>	<b>15.6700</b>	<b>0.0248</b>	<b>0.3408</b>	<b>0.7254</b>	<b>1.0662</b>	<b>0.1865</b>	<b>0.7067</b>	<b>0.8932</b>	<b>0.0000</b>	<b>2,377.8589</b>	<b>2,377.8589</b>	<b>0.5664</b>		<b>2,392.0187</b>

NCPWF IPS - San Diego County APCD Air District, Winter

**3.5 Grading - 2019**

**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	5.8000e-003	0.1971	0.0451	5.1000e-004	0.0114	7.5000e-004	0.0121	3.1100e-003	7.2000e-004	3.8300e-003		55.2652	55.2652	5.1500e-003		55.3941
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	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
<b>Total</b>	<b>0.0502</b>	<b>0.2279</b>	<b>0.3375</b>	<b>1.3300e-003</b>	<b>0.0935</b>	<b>1.3400e-003</b>	<b>0.0948</b>	<b>0.0249</b>	<b>1.2600e-003</b>	<b>0.0262</b>		<b>136.9566</b>	<b>136.9566</b>	<b>7.7900e-003</b>		<b>137.1514</b>

**3.6 Paving - 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					
Off-Road	0.9039	8.3029	7.9626	0.0129		0.4464	0.4464		0.4155	0.4155		1,185.0002	1,185.0002	0.3368		1,193.4204
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9039</b>	<b>8.3029</b>	<b>7.9626</b>	<b>0.0129</b>		<b>0.4464</b>	<b>0.4464</b>		<b>0.4155</b>	<b>0.4155</b>		<b>1,185.0002</b>	<b>1,185.0002</b>	<b>0.3368</b>		<b>1,193.4204</b>

NCPWF IPS - San Diego County APCD Air District, Winter

**3.6 Paving - 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	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109
<b>Total</b>	<b>0.0748</b>	<b>0.0500</b>	<b>0.4810</b>	<b>1.4300e-003</b>	<b>0.1479</b>	<b>1.0400e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.6000e-004</b>	<b>0.0402</b>		<b>142.4038</b>	<b>142.4038</b>	<b>4.2900e-003</b>		<b>142.5109</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	0.4855	6.3769	8.2906	0.0129		0.3600	0.3600		0.3522	0.3522	0.0000	1,185.0002	1,185.0002	0.3368		1,193.4204
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4855</b>	<b>6.3769</b>	<b>8.2906</b>	<b>0.0129</b>		<b>0.3600</b>	<b>0.3600</b>		<b>0.3522</b>	<b>0.3522</b>	<b>0.0000</b>	<b>1,185.0002</b>	<b>1,185.0002</b>	<b>0.3368</b>		<b>1,193.4204</b>



NCPWF IPS - San Diego County APCD Air District, Winter

**3.6 Paving - 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	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109
<b>Total</b>	<b>0.0748</b>	<b>0.0500</b>	<b>0.4810</b>	<b>1.4300e-003</b>	<b>0.1479</b>	<b>1.0400e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.6000e-004</b>	<b>0.0402</b>		<b>142.4038</b>	<b>142.4038</b>	<b>4.2900e-003</b>		<b>142.5109</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

NCPWF IPS - San Diego County APCD Air District, 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	0.0000	0.0000	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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

NCPWF IPS - San Diego County APCD Air District, Winter

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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>

NCPWF IPS - San Diego County APCD Air District, Winter

**5.2 Energy by Land Use - Natural Gas**

**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					
General Light Industry	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**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

NCPWF IPS - San Diego County APCD Air District, 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	0.1605	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4700e-003	1.4700e-003	0.0000		1.5600e-003
Unmitigated	0.1605	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4700e-003	1.4700e-003	0.0000		1.5600e-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	0.0170					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1434					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4700e-003	1.4700e-003	0.0000		1.5600e-003
<b>Total</b>	<b>0.1605</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.4700e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>		<b>1.5600e-003</b>

NCPWF IPS - San Diego County APCD Air District, 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	0.0170					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1434					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4700e-003	1.4700e-003	0.0000		1.5600e-003
<b>Total</b>	<b>0.1605</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.4700e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>		<b>1.5600e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators

NCPWF IPS - San Diego County APCD Air District, 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**

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NCPWF MR - San Diego County APCD Air District, Annual

**NCPWF MR**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	322.47	1000sqft	7.40	322,468.42	37

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.



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On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1 for interior and exterior coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SDAPCD Rule 67.0.1 for interior and exterior architectural coatings.

Landscape Equipment - CalEEMod defaults.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - EPA waste generation of 4.46 lb/person/day

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1 for interior and exterior architectural coatings.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - See section 7.2.2 for additional information on the emergency generator.

Stationary Sources - Process Boilers - No stationary sources.

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Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - CalEEMod defaults.

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	300.00	8.50
tblGrading	AcresOfGrading	211.50	8.50
tblGrading	MaterialExported	0.00	9,000.00
tblGrading	MaterialExported	0.00	9,000.00
tblLandUse	BuildingSpaceSquareFeet	322,470.00	322,468.42
tblLandUse	LandUseSquareFeet	322,470.00	322,468.42
tblLandUse	Population	0.00	37.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblSolidWaste	SolidWasteGenerationRate	399.86	21.45

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tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,000.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	8.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	VendorTripNumber	53.00	54.00
tblTripsAndVMT	WorkerTripNumber	35.00	36.00
tblTripsAndVMT	WorkerTripNumber	135.00	136.00
tblTripsAndVMT	WorkerTripNumber	27.00	28.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	11.70
tblVehicleTrips	CNW_TTP	13.00	100.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	0.63
tblVehicleTrips	SU_TR	0.68	1.00
tblVehicleTrips	WD_TR	6.97	0.10
tblWater	IndoorWaterUseRate	74,571,187.50	769,600.00

## 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					
2019	0.4287	5.0312	2.7816	6.5500e-003	0.4061	0.1978	0.6039	0.2091	0.1821	0.3912	0.0000	593.4427	593.4427	0.1655	0.0000	597.5792
2020	0.4438	4.2591	3.2600	7.6600e-003	0.1768	0.1802	0.3570	0.0470	0.1675	0.2145	0.0000	684.7719	684.7719	0.1391	0.0000	688.2491
2021	0.4121	3.8893	3.2737	7.7700e-003	0.1891	0.1580	0.3471	0.0513	0.1470	0.1983	0.0000	694.9486	694.9486	0.1327	0.0000	698.2664
2022	1.6299	1.2192	1.2237	2.8600e-003	0.0748	0.0471	0.1219	0.0202	0.0438	0.0640	0.0000	255.4164	255.4164	0.0497	0.0000	256.6582
<b>Maximum</b>	<b>1.6299</b>	<b>5.0312</b>	<b>3.2737</b>	<b>7.7700e-003</b>	<b>0.4061</b>	<b>0.1978</b>	<b>0.6039</b>	<b>0.2091</b>	<b>0.1821</b>	<b>0.3912</b>	<b>0.0000</b>	<b>694.9486</b>	<b>694.9486</b>	<b>0.1655</b>	<b>0.0000</b>	<b>698.2664</b>

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**2.1 Overall Construction**

**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					
2019	0.1524	2.9762	3.2189	6.5500e-003	0.2017	0.1124	0.3141	0.0992	0.1123	0.2115	0.0000	593.4421	593.4421	0.1655	0.0000	597.5786
2020	0.2050	3.2675	3.5866	7.6600e-003	0.1740	0.1455	0.3194	0.0467	0.1453	0.1920	0.0000	684.7715	684.7715	0.1391	0.0000	688.2486
2021	0.2054	3.2318	3.5938	7.7700e-003	0.1891	0.1479	0.3370	0.0513	0.1478	0.1991	0.0000	694.9482	694.9482	0.1327	0.0000	698.2659
2022	1.5713	1.1597	1.3781	2.8600e-003	0.0748	0.0562	0.1309	0.0202	0.0561	0.0763	0.0000	255.4162	255.4162	0.0497	0.0000	256.6580
<b>Maximum</b>	<b>1.5713</b>	<b>3.2675</b>	<b>3.5938</b>	<b>7.7700e-003</b>	<b>0.2017</b>	<b>0.1479</b>	<b>0.3370</b>	<b>0.0992</b>	<b>0.1478</b>	<b>0.2115</b>	<b>0.0000</b>	<b>694.9482</b>	<b>694.9482</b>	<b>0.1655</b>	<b>0.0000</b>	<b>698.2659</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>26.78</b>	<b>26.14</b>	<b>-11.75</b>	<b>0.00</b>	<b>24.47</b>	<b>20.76</b>	<b>22.96</b>	<b>33.64</b>	<b>14.60</b>	<b>21.78</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-21-2019	8-20-2019	3.6785	1.9948
2	8-21-2019	11-20-2019	1.2248	0.7782
3	11-21-2019	2-20-2020	1.1687	0.7753
4	2-21-2020	5-20-2020	1.1583	0.8611
5	5-21-2020	8-20-2020	1.1861	0.8851
6	8-21-2020	11-20-2020	1.1882	0.8871
7	11-21-2020	2-20-2021	1.1307	0.8759
8	2-21-2021	5-20-2021	1.0462	0.8357

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9	5-21-2021	8-20-2021	1.0801	0.8625
10	8-21-2021	11-20-2021	1.0818	0.8642
11	11-21-2021	2-20-2022	1.0245	0.8588
12	2-21-2022	5-20-2022	0.8689	0.7941
13	5-21-2022	8-20-2022	0.7211	0.7339
14	8-21-2022	9-30-2022	0.3214	0.3270
		Highest	3.6785	1.9948

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	1.4091	3.0000e-005	2.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7600e-003	5.7600e-003	2.0000e-005	0.0000	6.1400e-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	0.0000
Mobile	0.0338	0.1607	0.4656	1.7400e-003	0.1571	1.4300e-003	0.1586	0.0421	1.3400e-003	0.0434	0.0000	160.4814	160.4814	7.9400e-003	0.0000	160.6800
Stationary	0.0410	0.1835	0.1046	2.0000e-004		6.0400e-003	6.0400e-003		6.0400e-003	6.0400e-003	0.0000	19.0399	19.0399	2.6700e-003	0.0000	19.1066
Waste						0.0000	0.0000		0.0000	0.0000	4.3542	0.0000	4.3542	0.2573	0.0000	10.7872
Water						0.0000	0.0000		0.0000	0.0000	0.2442	3.2749	3.5191	0.0252	6.2000e-004	4.3339
<b>Total</b>	<b>1.4840</b>	<b>0.3442</b>	<b>0.5732</b>	<b>1.9400e-003</b>	<b>0.1571</b>	<b>7.4800e-003</b>	<b>0.1646</b>	<b>0.0421</b>	<b>7.3900e-003</b>	<b>0.0495</b>	<b>4.5983</b>	<b>182.8020</b>	<b>187.4003</b>	<b>0.2932</b>	<b>6.2000e-004</b>	<b>194.9139</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	1.4091	3.0000e-005	2.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7600e-003	5.7600e-003	2.0000e-005	0.0000	6.1400e-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	0.0000
Mobile	0.0338	0.1607	0.4656	1.7400e-003	0.1571	1.4300e-003	0.1586	0.0421	1.3400e-003	0.0434	0.0000	160.4814	160.4814	7.9400e-003	0.0000	160.6800
Stationary	0.0410	0.1835	0.1046	2.0000e-004		6.0400e-003	6.0400e-003		6.0400e-003	6.0400e-003	0.0000	19.0399	19.0399	2.6700e-003	0.0000	19.1066
Waste						0.0000	0.0000		0.0000	0.0000	4.3542	0.0000	4.3542	0.2573	0.0000	10.7872
Water						0.0000	0.0000		0.0000	0.0000	0.2442	3.2749	3.5191	0.0252	6.2000e-004	4.3339
<b>Total</b>	<b>1.4840</b>	<b>0.3442</b>	<b>0.5732</b>	<b>1.9400e-003</b>	<b>0.1571</b>	<b>7.4800e-003</b>	<b>0.1646</b>	<b>0.0421</b>	<b>7.3900e-003</b>	<b>0.0495</b>	<b>4.5983</b>	<b>182.8020</b>	<b>187.4003</b>	<b>0.2932</b>	<b>6.2000e-004</b>	<b>194.9139</b>

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

**3.0 Construction Detail**

**Construction Phase**



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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Mass Grading	Grading	5/21/2019	8/12/2019	5	60	
2	Finish Grading	Grading	8/13/2019	2/25/2020	5	141	
3	Building Construction	Building Construction	2/26/2020	4/22/2022	5	563	
4	Architectural Coating	Architectural Coating	5/7/2022	11/21/2022	5	141	
5	Paving	Paving	4/23/2022	5/6/2022	5	10	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 483,703; Non-Residential Outdoor: 161,234; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mass Grading	Excavators	1	8.00	158	0.38
Mass Grading	Graders	2	8.00	187	0.41
Mass Grading	Off-Highway Trucks	1	8.00	402	0.38
Mass Grading	Plate Compactors	2	8.00	8	0.43
Mass Grading	Rubber Tired Dozers	2	8.00	247	0.40
Mass Grading	Scrapers	4	8.00	367	0.48
Mass Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Finish Grading	Graders	1	8.00	187	0.41
Finish Grading	Off-Highway Trucks	1	8.00	402	0.38
Finish Grading	Plate Compactors	2	8.00	8	0.43
Finish Grading	Scrapers	1	8.00	367	0.48
Finish Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	2	8.00	63	0.31
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Rollers	2	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Aerial Lifts	1	8.00	63	0.31
Paving	Crushing/Proc. Equipment	1	8.00	85	0.78
Paving	Off-Highway Trucks	1	8.00	402	0.38
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**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
Mass Grading	14	36.00	0.00	1,125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finish Grading	7	18.00	0.00	1,125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	136.00	54.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Mass Grading - 2019**

**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					0.3665	0.0000	0.3665	0.1992	0.0000	0.1992	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2706	3.1204	1.7033	3.4900e-003		0.1304	0.1304		0.1200	0.1200	0.0000	313.2038	313.2038	0.0987	0.0000	315.6712
<b>Total</b>	<b>0.2706</b>	<b>3.1204</b>	<b>1.7033</b>	<b>3.4900e-003</b>	<b>0.3665</b>	<b>0.1304</b>	<b>0.4969</b>	<b>0.1992</b>	<b>0.1200</b>	<b>0.3192</b>	<b>0.0000</b>	<b>313.2038</b>	<b>313.2038</b>	<b>0.0987</b>	<b>0.0000</b>	<b>315.6712</b>

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**3.2 Mass Grading - 2019**

**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	4.9400e-003	0.1724	0.0376	4.4000e-004	9.6300e-003	6.4000e-004	0.0103	2.6400e-003	6.2000e-004	3.2600e-003	0.0000	43.8522	43.8522	3.9700e-003	0.0000	43.9515
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	4.2600e-003	3.2700e-003	0.0316	9.0000e-005	8.6600e-003	6.0000e-005	8.7200e-003	2.3000e-003	6.0000e-005	2.3600e-003	0.0000	8.0838	8.0838	2.6000e-004	0.0000	8.0903
<b>Total</b>	<b>9.2000e-003</b>	<b>0.1757</b>	<b>0.0692</b>	<b>5.3000e-004</b>	<b>0.0183</b>	<b>7.0000e-004</b>	<b>0.0190</b>	<b>4.9400e-003</b>	<b>6.8000e-004</b>	<b>5.6200e-003</b>	<b>0.0000</b>	<b>51.9360</b>	<b>51.9360</b>	<b>4.2300e-003</b>	<b>0.0000</b>	<b>52.0417</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					0.1649	0.0000	0.1649	0.0896	0.0000	0.0896	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0851	1.6610	1.9204	3.4900e-003		0.0671	0.0671		0.0671	0.0671	0.0000	313.2034	313.2034	0.0987	0.0000	315.6708
<b>Total</b>	<b>0.0851</b>	<b>1.6610</b>	<b>1.9204</b>	<b>3.4900e-003</b>	<b>0.1649</b>	<b>0.0671</b>	<b>0.2320</b>	<b>0.0896</b>	<b>0.0671</b>	<b>0.1568</b>	<b>0.0000</b>	<b>313.2034</b>	<b>313.2034</b>	<b>0.0987</b>	<b>0.0000</b>	<b>315.6708</b>

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**3.2 Mass Grading - 2019**

**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	4.9400e-003	0.1724	0.0376	4.4000e-004	9.6300e-003	6.4000e-004	0.0103	2.6400e-003	6.2000e-004	3.2600e-003	0.0000	43.8522	43.8522	3.9700e-003	0.0000	43.9515
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	4.2600e-003	3.2700e-003	0.0316	9.0000e-005	8.6600e-003	6.0000e-005	8.7200e-003	2.3000e-003	6.0000e-005	2.3600e-003	0.0000	8.0838	8.0838	2.6000e-004	0.0000	8.0903
<b>Total</b>	<b>9.2000e-003</b>	<b>0.1757</b>	<b>0.0692</b>	<b>5.3000e-004</b>	<b>0.0183</b>	<b>7.0000e-004</b>	<b>0.0190</b>	<b>4.9400e-003</b>	<b>6.8000e-004</b>	<b>5.6200e-003</b>	<b>0.0000</b>	<b>51.9360</b>	<b>51.9360</b>	<b>4.2300e-003</b>	<b>0.0000</b>	<b>52.0417</b>

**3.3 Finish Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.1400e-003	0.0000	5.1400e-003	5.8000e-004	0.0000	5.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1418	1.6090	0.9556	2.1300e-003		0.0662	0.0662		0.0610	0.0610	0.0000	190.0873	190.0873	0.0595	0.0000	191.5741
<b>Total</b>	<b>0.1418</b>	<b>1.6090</b>	<b>0.9556</b>	<b>2.1300e-003</b>	<b>5.1400e-003</b>	<b>0.0662</b>	<b>0.0713</b>	<b>5.8000e-004</b>	<b>0.0610</b>	<b>0.0615</b>	<b>0.0000</b>	<b>190.0873</b>	<b>190.0873</b>	<b>0.0595</b>	<b>0.0000</b>	<b>191.5741</b>

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**3.3 Finish Grading - 2019**

**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	3.5400e-003	0.1235	0.0269	3.2000e-004	8.9500e-003	4.6000e-004	9.4100e-003	2.4000e-003	4.4000e-004	2.8400e-003	0.0000	31.4119	31.4119	2.8400e-003	0.0000	31.4830
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	3.5800e-003	2.7500e-003	0.0266	8.0000e-005	7.2900e-003	5.0000e-005	7.3400e-003	1.9400e-003	5.0000e-005	1.9900e-003	0.0000	6.8038	6.8038	2.2000e-004	0.0000	6.8093
<b>Total</b>	<b>7.1200e-003</b>	<b>0.1262</b>	<b>0.0535</b>	<b>4.0000e-004</b>	<b>0.0162</b>	<b>5.1000e-004</b>	<b>0.0168</b>	<b>4.3400e-003</b>	<b>4.9000e-004</b>	<b>4.8300e-003</b>	<b>0.0000</b>	<b>38.2157</b>	<b>38.2157</b>	<b>3.0600e-003</b>	<b>0.0000</b>	<b>38.2923</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					2.3100e-003	0.0000	2.3100e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0510	1.0133	1.1758	2.1300e-003		0.0441	0.0441		0.0441	0.0441	0.0000	190.0871	190.0871	0.0595	0.0000	191.5738
<b>Total</b>	<b>0.0510</b>	<b>1.0133</b>	<b>1.1758</b>	<b>2.1300e-003</b>	<b>2.3100e-003</b>	<b>0.0441</b>	<b>0.0464</b>	<b>2.6000e-004</b>	<b>0.0441</b>	<b>0.0443</b>	<b>0.0000</b>	<b>190.0871</b>	<b>190.0871</b>	<b>0.0595</b>	<b>0.0000</b>	<b>191.5738</b>

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**3.3 Finish Grading - 2019**

**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	3.5400e-003	0.1235	0.0269	3.2000e-004	8.9500e-003	4.6000e-004	9.4100e-003	2.4000e-003	4.4000e-004	2.8400e-003	0.0000	31.4119	31.4119	2.8400e-003	0.0000	31.4830
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	3.5800e-003	2.7500e-003	0.0266	8.0000e-005	7.2900e-003	5.0000e-005	7.3400e-003	1.9400e-003	5.0000e-005	1.9900e-003	0.0000	6.8038	6.8038	2.2000e-004	0.0000	6.8093
<b>Total</b>	<b>7.1200e-003</b>	<b>0.1262</b>	<b>0.0535</b>	<b>4.0000e-004</b>	<b>0.0162</b>	<b>5.1000e-004</b>	<b>0.0168</b>	<b>4.3400e-003</b>	<b>4.9000e-004</b>	<b>4.8300e-003</b>	<b>0.0000</b>	<b>38.2157</b>	<b>38.2157</b>	<b>3.0600e-003</b>	<b>0.0000</b>	<b>38.2923</b>

**3.3 Finish Grading - 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					5.1400e-003	0.0000	5.1400e-003	5.8000e-004	0.0000	5.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0526	0.5823	0.3613	8.4000e-004		0.0235	0.0235		0.0217	0.0217	0.0000	73.6426	73.6426	0.0235	0.0000	74.2311
<b>Total</b>	<b>0.0526</b>	<b>0.5823</b>	<b>0.3613</b>	<b>8.4000e-004</b>	<b>5.1400e-003</b>	<b>0.0235</b>	<b>0.0287</b>	<b>5.8000e-004</b>	<b>0.0217</b>	<b>0.0223</b>	<b>0.0000</b>	<b>73.6426</b>	<b>73.6426</b>	<b>0.0235</b>	<b>0.0000</b>	<b>74.2311</b>

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**3.3 Finish Grading - 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	1.2800e-003	0.0454	0.0104	1.2000e-004	7.9100e-003	1.4000e-004	8.0600e-003	2.0200e-003	1.4000e-004	2.1600e-003	0.0000	12.3072	12.3072	1.1100e-003	0.0000	12.3349
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	1.3300e-003	9.8000e-004	9.6300e-003	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.6096	2.6096	8.0000e-005	0.0000	2.6115
<b>Total</b>	<b>2.6100e-003</b>	<b>0.0464</b>	<b>0.0200</b>	<b>1.5000e-004</b>	<b>0.0108</b>	<b>1.6000e-004</b>	<b>0.0110</b>	<b>2.7900e-003</b>	<b>1.6000e-004</b>	<b>2.9500e-003</b>	<b>0.0000</b>	<b>14.9167</b>	<b>14.9167</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>14.9464</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					2.3100e-003	0.0000	2.3100e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0202	0.4013	0.4657	8.4000e-004		0.0175	0.0175		0.0175	0.0175	0.0000	73.6425	73.6425	0.0235	0.0000	74.2310
<b>Total</b>	<b>0.0202</b>	<b>0.4013</b>	<b>0.4657</b>	<b>8.4000e-004</b>	<b>2.3100e-003</b>	<b>0.0175</b>	<b>0.0198</b>	<b>2.6000e-004</b>	<b>0.0175</b>	<b>0.0177</b>	<b>0.0000</b>	<b>73.6425</b>	<b>73.6425</b>	<b>0.0235</b>	<b>0.0000</b>	<b>74.2310</b>



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**3.3 Finish Grading - 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	1.2800e-003	0.0454	0.0104	1.2000e-004	7.9100e-003	1.4000e-004	8.0600e-003	2.0200e-003	1.4000e-004	2.1600e-003	0.0000	12.3072	12.3072	1.1100e-003	0.0000	12.3349
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	1.3300e-003	9.8000e-004	9.6300e-003	3.0000e-005	2.8900e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.6096	2.6096	8.0000e-005	0.0000	2.6115
<b>Total</b>	<b>2.6100e-003</b>	<b>0.0464</b>	<b>0.0200</b>	<b>1.5000e-004</b>	<b>0.0108</b>	<b>1.6000e-004</b>	<b>0.0110</b>	<b>2.7900e-003</b>	<b>1.6000e-004</b>	<b>2.9500e-003</b>	<b>0.0000</b>	<b>14.9167</b>	<b>14.9167</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>14.9464</b>

**3.4 Building Construction - 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					
Off-Road	0.3101	2.9060	2.2933	3.8300e-003		0.1523	0.1523		0.1416	0.1416	0.0000	328.6269	328.6269	0.0990	0.0000	331.1006
<b>Total</b>	<b>0.3101</b>	<b>2.9060</b>	<b>2.2933</b>	<b>3.8300e-003</b>		<b>0.1523</b>	<b>0.1523</b>		<b>0.1416</b>	<b>0.1416</b>	<b>0.0000</b>	<b>328.6269</b>	<b>328.6269</b>	<b>0.0990</b>	<b>0.0000</b>	<b>331.1006</b>

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**3.4 Building Construction - 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	0.0228	0.6832	0.1815	1.6200e-003	0.0398	3.3300e-003	0.0431	0.0115	3.1900e-003	0.0147	0.0000	158.1585	158.1585	0.0121	0.0000	158.4616
Worker	0.0556	0.0412	0.4040	1.2100e-003	0.1211	8.7000e-004	0.1219	0.0322	8.0000e-004	0.0330	0.0000	109.4272	109.4272	3.2900e-003	0.0000	109.5093
<b>Total</b>	<b>0.0785</b>	<b>0.7244</b>	<b>0.5855</b>	<b>2.8300e-003</b>	<b>0.1608</b>	<b>4.2000e-003</b>	<b>0.1651</b>	<b>0.0437</b>	<b>3.9900e-003</b>	<b>0.0476</b>	<b>0.0000</b>	<b>267.5858</b>	<b>267.5858</b>	<b>0.0154</b>	<b>0.0000</b>	<b>267.9710</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	0.1037	2.0954	2.5154	3.8300e-003		0.1237	0.1237		0.1237	0.1237	0.0000	328.6265	328.6265	0.0990	0.0000	331.1002
<b>Total</b>	<b>0.1037</b>	<b>2.0954</b>	<b>2.5154</b>	<b>3.8300e-003</b>		<b>0.1237</b>	<b>0.1237</b>		<b>0.1237</b>	<b>0.1237</b>	<b>0.0000</b>	<b>328.6265</b>	<b>328.6265</b>	<b>0.0990</b>	<b>0.0000</b>	<b>331.1002</b>

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**3.4 Building Construction - 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	0.0228	0.6832	0.1815	1.6200e-003	0.0398	3.3300e-003	0.0431	0.0115	3.1900e-003	0.0147	0.0000	158.1585	158.1585	0.0121	0.0000	158.4616
Worker	0.0556	0.0412	0.4040	1.2100e-003	0.1211	8.7000e-004	0.1219	0.0322	8.0000e-004	0.0330	0.0000	109.4272	109.4272	3.2900e-003	0.0000	109.5093
<b>Total</b>	<b>0.0785</b>	<b>0.7244</b>	<b>0.5855</b>	<b>2.8300e-003</b>	<b>0.1608</b>	<b>4.2000e-003</b>	<b>0.1651</b>	<b>0.0437</b>	<b>3.9900e-003</b>	<b>0.0476</b>	<b>0.0000</b>	<b>267.5858</b>	<b>267.5858</b>	<b>0.0154</b>	<b>0.0000</b>	<b>267.9710</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3286	3.1210	2.6372	4.5100e-003		0.1554	0.1554		0.1446	0.1446	0.0000	386.3831	386.3831	0.1155	0.0000	389.2699
<b>Total</b>	<b>0.3286</b>	<b>3.1210</b>	<b>2.6372</b>	<b>4.5100e-003</b>		<b>0.1554</b>	<b>0.1554</b>		<b>0.1446</b>	<b>0.1446</b>	<b>0.0000</b>	<b>386.3831</b>	<b>386.3831</b>	<b>0.1155</b>	<b>0.0000</b>	<b>389.2699</b>

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**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0218	0.7242	0.1931	1.8900e-003	0.0468	1.5300e-003	0.0483	0.0135	1.4700e-003	0.0150	0.0000	184.2368	184.2368	0.0137	0.0000	184.5786
Worker	0.0617	0.0440	0.4434	1.3800e-003	0.1423	1.0100e-003	0.1433	0.0378	9.3000e-004	0.0388	0.0000	124.3288	124.3288	3.5600e-003	0.0000	124.4178
<b>Total</b>	<b>0.0835</b>	<b>0.7682</b>	<b>0.6365</b>	<b>3.2700e-003</b>	<b>0.1891</b>	<b>2.5400e-003</b>	<b>0.1916</b>	<b>0.0513</b>	<b>2.4000e-003</b>	<b>0.0537</b>	<b>0.0000</b>	<b>308.5656</b>	<b>308.5656</b>	<b>0.0172</b>	<b>0.0000</b>	<b>308.9965</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	0.1219	2.4636	2.9573	4.5100e-003		0.1454	0.1454		0.1454	0.1454	0.0000	386.3826	386.3826	0.1155	0.0000	389.2694
<b>Total</b>	<b>0.1219</b>	<b>2.4636</b>	<b>2.9573</b>	<b>4.5100e-003</b>		<b>0.1454</b>	<b>0.1454</b>		<b>0.1454</b>	<b>0.1454</b>	<b>0.0000</b>	<b>386.3826</b>	<b>386.3826</b>	<b>0.1155</b>	<b>0.0000</b>	<b>389.2694</b>

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**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0218	0.7242	0.1931	1.8900e-003	0.0468	1.5300e-003	0.0483	0.0135	1.4700e-003	0.0150	0.0000	184.2368	184.2368	0.0137	0.0000	184.5786
Worker	0.0617	0.0440	0.4434	1.3800e-003	0.1423	1.0100e-003	0.1433	0.0378	9.3000e-004	0.0388	0.0000	124.3288	124.3288	3.5600e-003	0.0000	124.4178
<b>Total</b>	<b>0.0835</b>	<b>0.7682</b>	<b>0.6365</b>	<b>3.2700e-003</b>	<b>0.1891</b>	<b>2.5400e-003</b>	<b>0.1916</b>	<b>0.0513</b>	<b>2.4000e-003</b>	<b>0.0537</b>	<b>0.0000</b>	<b>308.5656</b>	<b>308.5656</b>	<b>0.0172</b>	<b>0.0000</b>	<b>308.9965</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0904	0.8531	0.7947	1.3800e-003		0.0406	0.0406		0.0378	0.0378	0.0000	118.4639	118.4639	0.0353	0.0000	119.3451
<b>Total</b>	<b>0.0904</b>	<b>0.8531</b>	<b>0.7947</b>	<b>1.3800e-003</b>		<b>0.0406</b>	<b>0.0406</b>		<b>0.0378</b>	<b>0.0378</b>	<b>0.0000</b>	<b>118.4639</b>	<b>118.4639</b>	<b>0.0353</b>	<b>0.0000</b>	<b>119.3451</b>

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**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2100e-003	0.2096	0.0561	5.7000e-004	0.0143	4.0000e-004	0.0147	4.1400e-003	3.9000e-004	4.5300e-003	0.0000	55.9363	55.9363	4.0600e-003	0.0000	56.0378
Worker	0.0179	0.0123	0.1262	4.1000e-004	0.0436	3.0000e-004	0.0439	0.0116	2.8000e-004	0.0119	0.0000	36.7115	36.7115	1.0000e-003	0.0000	36.7365
<b>Total</b>	<b>0.0241</b>	<b>0.2219</b>	<b>0.1822</b>	<b>9.8000e-004</b>	<b>0.0580</b>	<b>7.0000e-004</b>	<b>0.0587</b>	<b>0.0157</b>	<b>6.7000e-004</b>	<b>0.0164</b>	<b>0.0000</b>	<b>92.6477</b>	<b>92.6477</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>92.7742</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	0.0374	0.7551	0.9065	1.3800e-003		0.0446	0.0446		0.0446	0.0446	0.0000	118.4638	118.4638	0.0353	0.0000	119.3449
<b>Total</b>	<b>0.0374</b>	<b>0.7551</b>	<b>0.9065</b>	<b>1.3800e-003</b>		<b>0.0446</b>	<b>0.0446</b>		<b>0.0446</b>	<b>0.0446</b>	<b>0.0000</b>	<b>118.4638</b>	<b>118.4638</b>	<b>0.0353</b>	<b>0.0000</b>	<b>119.3449</b>

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**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2100e-003	0.2096	0.0561	5.7000e-004	0.0143	4.0000e-004	0.0147	4.1400e-003	3.9000e-004	4.5300e-003	0.0000	55.9363	55.9363	4.0600e-003	0.0000	56.0378
Worker	0.0179	0.0123	0.1262	4.1000e-004	0.0436	3.0000e-004	0.0439	0.0116	2.8000e-004	0.0119	0.0000	36.7115	36.7115	1.0000e-003	0.0000	36.7365
<b>Total</b>	<b>0.0241</b>	<b>0.2219</b>	<b>0.1822</b>	<b>9.8000e-004</b>	<b>0.0580</b>	<b>7.0000e-004</b>	<b>0.0587</b>	<b>0.0157</b>	<b>6.7000e-004</b>	<b>0.0164</b>	<b>0.0000</b>	<b>92.6477</b>	<b>92.6477</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>92.7742</b>

**3.5 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5400e-003	0.0395	0.0771	1.2000e-004		7.3000e-004	7.3000e-004		6.7000e-004	6.7000e-004	0.0000	10.4006	10.4006	3.3600e-003	0.0000	10.4847
<b>Total</b>	<b>1.4972</b>	<b>0.0395</b>	<b>0.0771</b>	<b>1.2000e-004</b>		<b>7.3000e-004</b>	<b>7.3000e-004</b>		<b>6.7000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>10.4006</b>	<b>10.4006</b>	<b>3.3600e-003</b>	<b>0.0000</b>	<b>10.4847</b>

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**3.5 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4900e-003	4.4600e-003	0.0458	1.5000e-004	0.0158	1.1000e-004	0.0159	4.2100e-003	1.0000e-004	4.3100e-003	0.0000	13.3214	13.3214	3.6000e-004	0.0000	13.3305
<b>Total</b>	<b>6.4900e-003</b>	<b>4.4600e-003</b>	<b>0.0458</b>	<b>1.5000e-004</b>	<b>0.0158</b>	<b>1.1000e-004</b>	<b>0.0159</b>	<b>4.2100e-003</b>	<b>1.0000e-004</b>	<b>4.3100e-003</b>	<b>0.0000</b>	<b>13.3214</b>	<b>13.3214</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>13.3305</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					
Archit. Coating	1.4946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9100e-003	0.0665	0.0899	1.2000e-004		4.6600e-003	4.6600e-003		4.6600e-003	4.6600e-003	0.0000	10.4006	10.4006	3.3600e-003	0.0000	10.4847
<b>Total</b>	<b>1.4976</b>	<b>0.0665</b>	<b>0.0899</b>	<b>1.2000e-004</b>		<b>4.6600e-003</b>	<b>4.6600e-003</b>		<b>4.6600e-003</b>	<b>4.6600e-003</b>	<b>0.0000</b>	<b>10.4006</b>	<b>10.4006</b>	<b>3.3600e-003</b>	<b>0.0000</b>	<b>10.4847</b>



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**3.5 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4900e-003	4.4600e-003	0.0458	1.5000e-004	0.0158	1.1000e-004	0.0159	4.2100e-003	1.0000e-004	4.3100e-003	0.0000	13.3214	13.3214	3.6000e-004	0.0000	13.3305
<b>Total</b>	<b>6.4900e-003</b>	<b>4.4600e-003</b>	<b>0.0458</b>	<b>1.5000e-004</b>	<b>0.0158</b>	<b>1.1000e-004</b>	<b>0.0159</b>	<b>4.2100e-003</b>	<b>1.0000e-004</b>	<b>4.3100e-003</b>	<b>0.0000</b>	<b>13.3214</b>	<b>13.3214</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>13.3305</b>

**3.6 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	0.0113	0.0999	0.1210	2.3000e-004		4.9500e-003	4.9500e-003		4.6200e-003	4.6200e-003	0.0000	19.7729	19.7729	5.6200e-003	0.0000	19.9133
Paving	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>0.0113</b>	<b>0.0999</b>	<b>0.1210</b>	<b>2.3000e-004</b>		<b>4.9500e-003</b>	<b>4.9500e-003</b>		<b>4.6200e-003</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>19.7729</b>	<b>19.7729</b>	<b>5.6200e-003</b>	<b>0.0000</b>	<b>19.9133</b>

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**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.7000e-004	2.7800e-003	1.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8098	0.8098	2.0000e-005	0.0000	0.8104
<b>Total</b>	<b>3.9000e-004</b>	<b>2.7000e-004</b>	<b>2.7800e-003</b>	<b>1.0000e-005</b>	<b>9.6000e-004</b>	<b>1.0000e-005</b>	<b>9.7000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.8098</b>	<b>0.8098</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8104</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	5.3800e-003	0.1114	0.1511	2.3000e-004		6.1000e-003	6.1000e-003		6.1000e-003	6.1000e-003	0.0000	19.7729	19.7729	5.6200e-003	0.0000	19.9133
Paving	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>5.3800e-003</b>	<b>0.1114</b>	<b>0.1511</b>	<b>2.3000e-004</b>		<b>6.1000e-003</b>	<b>6.1000e-003</b>		<b>6.1000e-003</b>	<b>6.1000e-003</b>	<b>0.0000</b>	<b>19.7729</b>	<b>19.7729</b>	<b>5.6200e-003</b>	<b>0.0000</b>	<b>19.9133</b>

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**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.7000e-004	2.7800e-003	1.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8098	0.8098	2.0000e-005	0.0000	0.8104
<b>Total</b>	<b>3.9000e-004</b>	<b>2.7000e-004</b>	<b>2.7800e-003</b>	<b>1.0000e-005</b>	<b>9.6000e-004</b>	<b>1.0000e-005</b>	<b>9.7000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.8098</b>	<b>0.8098</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8104</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0338	0.1607	0.4656	1.7400e-003	0.1571	1.4300e-003	0.1586	0.0421	1.3400e-003	0.0434	0.0000	160.4814	160.4814	7.9400e-003	0.0000	160.6800
Unmitigated	0.0338	0.1607	0.4656	1.7400e-003	0.1571	1.4300e-003	0.1586	0.0421	1.3400e-003	0.0434	0.0000	160.4814	160.4814	7.9400e-003	0.0000	160.6800

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	32.25	201.68	322.47	416,990	416,990
Total	32.25	201.68	322.47	416,990	416,990

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	0.00	0.00	11.70	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

5.0 Energy Detail

Historical Energy Use: N



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**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr					
General Light Industry	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	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>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

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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	1.4091	3.0000e-005	2.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7600e-003	5.7600e-003	2.0000e-005	0.0000	6.1400e-003
Unmitigated	1.4091	3.0000e-005	2.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7600e-003	5.7600e-003	2.0000e-005	0.0000	6.1400e-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	0.1495					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2594					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8000e-004	3.0000e-005	2.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7600e-003	5.7600e-003	2.0000e-005	0.0000	6.1400e-003
<b>Total</b>	<b>1.4091</b>	<b>3.0000e-005</b>	<b>2.9700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.7600e-003</b>	<b>5.7600e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.1400e-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	0.1495					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2594					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8000e-004	3.0000e-005	2.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7600e-003	5.7600e-003	2.0000e-005	0.0000	6.1400e-003
<b>Total</b>	<b>1.4091</b>	<b>3.0000e-005</b>	<b>2.9700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.7600e-003</b>	<b>5.7600e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.1400e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.5191	0.0252	6.2000e-004	4.3339
Unmitigated	3.5191	0.0252	6.2000e-004	4.3339

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.7696 / 0	3.5191	0.0252	6.2000e-004	4.3339
<b>Total</b>		<b>3.5191</b>	<b>0.0252</b>	<b>6.2000e-004</b>	<b>4.3339</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			
General Light Industry	0.7696 / 0	3.5191	0.0252	6.2000e-004	4.3339
<b>Total</b>		<b>3.5191</b>	<b>0.0252</b>	<b>6.2000e-004</b>	<b>4.3339</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.3542	0.2573	0.0000	10.7872
Unmitigated	4.3542	0.2573	0.0000	10.7872

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	21.45	4.3542	0.2573	0.0000	10.7872
<b>Total</b>		<b>4.3542</b>	<b>0.2573</b>	<b>0.0000</b>	<b>10.7872</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	21.45	4.3542	0.2573	0.0000	10.7872
<b>Total</b>		<b>4.3542</b>	<b>0.2573</b>	<b>0.0000</b>	<b>10.7872</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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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	8	50	1000	0.73	Diesel

**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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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750-9999 HP)	0.0410	0.1835	0.1046	2.0000e-004		6.0400e-003	6.0400e-003		6.0400e-003	6.0400e-003	0.0000	19.0399	19.0399	2.6700e-003	0.0000	19.1066
<b>Total</b>	<b>0.0410</b>	<b>0.1835</b>	<b>0.1046</b>	<b>2.0000e-004</b>		<b>6.0400e-003</b>	<b>6.0400e-003</b>		<b>6.0400e-003</b>	<b>6.0400e-003</b>	<b>0.0000</b>	<b>19.0399</b>	<b>19.0399</b>	<b>2.6700e-003</b>	<b>0.0000</b>	<b>19.1066</b>

**11.0 Vegetation**

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**NCPWF MR**

**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	322.47	1000sqft	7.40	322,468.42	37

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

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On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1 for interior and exterior coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SDAPCD Rule 67.0.1 for interior and exterior architectural coatings.

Landscape Equipment - CalEEMod defaults.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - EPA waste generation of 4.46 lb/person/day

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1 for interior and exterior architectural coatings.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - See section 7.2.2 for additional information on the emergency generator.

Stationary Sources - Process Boilers - No stationary sources.

NCPWF MR - San Diego County APCD Air District, Summer

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - CalEEMod defaults.

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3



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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	300.00	8.50
tblGrading	AcresOfGrading	211.50	8.50
tblGrading	MaterialExported	0.00	9,000.00
tblGrading	MaterialExported	0.00	9,000.00
tblLandUse	BuildingSpaceSquareFeet	322,470.00	322,468.42
tblLandUse	LandUseSquareFeet	322,470.00	322,468.42
tblLandUse	Population	0.00	37.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblSolidWaste	SolidWasteGenerationRate	399.86	21.45

## NCPWF MR - San Diego County APCD Air District, Summer

tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,000.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	8.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	VendorTripNumber	53.00	54.00
tblTripsAndVMT	WorkerTripNumber	35.00	36.00
tblTripsAndVMT	WorkerTripNumber	135.00	136.00
tblTripsAndVMT	WorkerTripNumber	27.00	28.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	11.70
tblVehicleTrips	CNW_TTP	13.00	100.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	0.63
tblVehicleTrips	SU_TR	0.68	1.00
tblVehicleTrips	WD_TR	6.97	0.10
tblWater	IndoorWaterUseRate	74,571,187.50	769,600.00

## 2.0 Emissions Summary

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NCPWF MR - San Diego County APCD Air District, 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					
2019	9.3242	109.7428	59.1059	0.1345	12.8389	4.3696	17.2084	6.8081	4.0223	10.8304	0.0000	13,444.30 20	13,444.30 20	3.7801	0.0000	13,538.80 32
2020	3.4943	32.6057	26.0662	0.0608	1.4828	1.4095	2.8923	0.4016	1.3118	1.7133	0.0000	5,997.458 4	5,997.458 4	1.3623	0.0000	6,025.807 6
2021	3.1520	29.7205	25.2170	0.0603	1.4828	1.2104	2.6932	0.4016	1.1258	1.5274	0.0000	5,944.652 4	5,944.652 4	1.1194	0.0000	5,972.637 5
2022	21.3282	26.8030	24.7923	0.0597	1.4828	1.0325	2.5152	0.4016	0.9604	1.3620	0.0000	5,890.1187	5,890.1187	1.2433	0.0000	5,917.849 6
<b>Maximum</b>	<b>21.3282</b>	<b>109.7428</b>	<b>59.1059</b>	<b>0.1345</b>	<b>12.8389</b>	<b>4.3696</b>	<b>17.2084</b>	<b>6.8081</b>	<b>4.0223</b>	<b>10.8304</b>	<b>0.0000</b>	<b>13,444.30 20</b>	<b>13,444.30 20</b>	<b>3.7801</b>	<b>0.0000</b>	<b>13,538.80 32</b>



NCPWF MR - San Diego County APCD Air District, 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	7.7229	3.0000e-004	0.0330	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0706	0.0706	1.9000e-004		0.0752
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	0.6424	2.8050	8.8181	0.0329	2.9120	0.0259	2.9378	0.7783	0.0242	0.8024		3,343.3513	3,343.3513	0.1605		3,347.3634
Stationary	13.1285	58.7100	33.4750	0.0631		1.9313	1.9313		1.9313	1.9313		6,716.1130	6,716.1130	0.9416		6,739.6530
<b>Total</b>	<b>21.4938</b>	<b>61.5153</b>	<b>42.3261</b>	<b>0.0960</b>	<b>2.9120</b>	<b>1.9572</b>	<b>4.8692</b>	<b>0.7783</b>	<b>1.9555</b>	<b>2.7338</b>		<b>10,059.5348</b>	<b>10,059.5348</b>	<b>1.1023</b>	<b>0.0000</b>	<b>10,087.0916</b>

NCPWF MR - San Diego County APCD Air District, Summer

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.7229	3.0000e-004	0.0330	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0706	0.0706	1.9000e-004		0.0752
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	0.6424	2.8050	8.8181	0.0329	2.9120	0.0259	2.9378	0.7783	0.0242	0.8024		3,343.3513	3,343.3513	0.1605		3,347.3634
Stationary	13.1285	58.7100	33.4750	0.0631		1.9313	1.9313		1.9313	1.9313		6,716.1130	6,716.1130	0.9416		6,739.6530
<b>Total</b>	<b>21.4938</b>	<b>61.5153</b>	<b>42.3261</b>	<b>0.0960</b>	<b>2.9120</b>	<b>1.9572</b>	<b>4.8692</b>	<b>0.7783</b>	<b>1.9555</b>	<b>2.7338</b>		<b>10,059.5348</b>	<b>10,059.5348</b>	<b>1.1023</b>	<b>0.0000</b>	<b>10,087.0916</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**

NCPWF MR - San Diego County APCD Air District, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Mass Grading	Grading	5/21/2019	8/12/2019	5	60	
2	Finish Grading	Grading	8/13/2019	2/25/2020	5	141	
3	Building Construction	Building Construction	2/26/2020	4/22/2022	5	563	
4	Architectural Coating	Architectural Coating	5/7/2022	11/21/2022	5	141	
5	Paving	Paving	4/23/2022	5/6/2022	5	10	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 483,703; Non-Residential Outdoor: 161,234; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

NCPWF MR - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mass Grading	Excavators	1	8.00	158	0.38
Mass Grading	Graders	2	8.00	187	0.41
Mass Grading	Off-Highway Trucks	1	8.00	402	0.38
Mass Grading	Plate Compactors	2	8.00	8	0.43
Mass Grading	Rubber Tired Dozers	2	8.00	247	0.40
Mass Grading	Scrapers	4	8.00	367	0.48
Mass Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Finish Grading	Graders	1	8.00	187	0.41
Finish Grading	Off-Highway Trucks	1	8.00	402	0.38
Finish Grading	Plate Compactors	2	8.00	8	0.43
Finish Grading	Scrapers	1	8.00	367	0.48
Finish Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	2	8.00	63	0.31
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Rollers	2	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Aerial Lifts	1	8.00	63	0.31
Paving	Crushing/Proc. Equipment	1	8.00	85	0.78
Paving	Off-Highway Trucks	1	8.00	402	0.38
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**



NCPWF MR - San Diego County APCD Air District, 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
Mass Grading	14	36.00	0.00	1,125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finish Grading	7	18.00	0.00	1,125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	136.00	54.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Mass Grading - 2019**

**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					12.2155	0.0000	12.2155	6.6399	0.0000	6.6399			0.0000			0.0000
Off-Road	9.0201	104.0122	56.7763	0.1165		4.3462	4.3462		4.0001	4.0001		11,508.268	11,508.268	3.6264		11,598.927
<b>Total</b>	<b>9.0201</b>	<b>104.0122</b>	<b>56.7763</b>	<b>0.1165</b>	<b>12.2155</b>	<b>4.3462</b>	<b>16.5617</b>	<b>6.6399</b>	<b>4.0001</b>	<b>10.6399</b>		<b>11,508.2688</b>	<b>11,508.2688</b>	<b>3.6264</b>		<b>11,598.9297</b>

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**3.2 Mass Grading - 2019**

**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	0.1628	5.6320	1.2157	0.0149	0.3276	0.0213	0.3489	0.0898	0.0203	0.1101		1,622.7613	1,622.7613	0.1436		1,626.3515
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	0.1414	0.0987	1.1139	3.1500e-003	0.2957	2.1100e-003	0.2978	0.0784	1.9400e-003	0.0804		313.2719	313.2719	0.0100		313.5220
<b>Total</b>	<b>0.3041</b>	<b>5.7306</b>	<b>2.3296</b>	<b>0.0180</b>	<b>0.6234</b>	<b>0.0234</b>	<b>0.6467</b>	<b>0.1682</b>	<b>0.0223</b>	<b>0.1905</b>		<b>1,936.0332</b>	<b>1,936.0332</b>	<b>0.1536</b>		<b>1,939.8735</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					5.4970	0.0000	5.4970	2.9879	0.0000	2.9879			0.0000			0.0000
Off-Road	2.8364	55.3681	64.0120	0.1165		2.2371	2.2371		2.2371	2.2371	0.0000	11,508.2688	11,508.2688	3.6264		11,598.9297
<b>Total</b>	<b>2.8364</b>	<b>55.3681</b>	<b>64.0120</b>	<b>0.1165</b>	<b>5.4970</b>	<b>2.2371</b>	<b>7.7341</b>	<b>2.9879</b>	<b>2.2371</b>	<b>5.2250</b>	<b>0.0000</b>	<b>11,508.2688</b>	<b>11,508.2688</b>	<b>3.6264</b>		<b>11,598.9297</b>

NCPWF MR - San Diego County APCD Air District, Summer

**3.2 Mass Grading - 2019**

**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	0.1628	5.6320	1.2157	0.0149	0.3276	0.0213	0.3489	0.0898	0.0203	0.1101		1,622.7613	1,622.7613	0.1436		1,626.3515
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	0.1414	0.0987	1.1139	3.1500e-003	0.2957	2.1100e-003	0.2978	0.0784	1.9400e-003	0.0804		313.2719	313.2719	0.0100		313.5220
<b>Total</b>	<b>0.3041</b>	<b>5.7306</b>	<b>2.3296</b>	<b>0.0180</b>	<b>0.6234</b>	<b>0.0234</b>	<b>0.6467</b>	<b>0.1682</b>	<b>0.0223</b>	<b>0.1905</b>		<b>1,936.0332</b>	<b>1,936.0332</b>	<b>0.1536</b>		<b>1,939.8735</b>

**3.3 Finish Grading - 2019**

**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					0.0729	0.0000	0.0729	8.2600e-003	0.0000	8.2600e-003			0.0000			0.0000
Off-Road	2.8077	31.8604	18.9226	0.0422		1.3102	1.3102		1.2070	1.2070		4,149.2157	4,149.2157	1.2981		4,181.6684
<b>Total</b>	<b>2.8077</b>	<b>31.8604</b>	<b>18.9226</b>	<b>0.0422</b>	<b>0.0729</b>	<b>1.3102</b>	<b>1.3831</b>	<b>8.2600e-003</b>	<b>1.2070</b>	<b>1.2152</b>		<b>4,149.2157</b>	<b>4,149.2157</b>	<b>1.2981</b>		<b>4,181.6684</b>

NCPWF MR - San Diego County APCD Air District, Summer

**3.3 Finish Grading - 2019**

**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	0.0693	2.3966	0.5173	6.3300e-003	0.1812	9.0400e-003	0.1902	0.0485	8.6500e-003	0.0571		690.5367	690.5367	0.0611		692.0645
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	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
<b>Total</b>	<b>0.1399</b>	<b>2.4459</b>	<b>1.0743</b>	<b>7.9000e-003</b>	<b>0.3291</b>	<b>0.0101</b>	<b>0.3392</b>	<b>0.0877</b>	<b>9.6200e-003</b>	<b>0.0973</b>		<b>847.1727</b>	<b>847.1727</b>	<b>0.0661</b>		<b>848.8255</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					0.0328	0.0000	0.0328	3.7200e-003	0.0000	3.7200e-003			0.0000			0.0000
Off-Road	1.0103	20.0646	23.2829	0.0422		0.8726	0.8726		0.8726	0.8726	0.0000	4,149.2157	4,149.2157	1.2981		4,181.6684
<b>Total</b>	<b>1.0103</b>	<b>20.0646</b>	<b>23.2829</b>	<b>0.0422</b>	<b>0.0328</b>	<b>0.8726</b>	<b>0.9054</b>	<b>3.7200e-003</b>	<b>0.8726</b>	<b>0.8763</b>	<b>0.0000</b>	<b>4,149.2157</b>	<b>4,149.2157</b>	<b>1.2981</b>		<b>4,181.6684</b>

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**3.3 Finish Grading - 2019**

**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	0.0693	2.3966	0.5173	6.3300e-003	0.1812	9.0400e-003	0.1902	0.0485	8.6500e-003	0.0571		690.5367	690.5367	0.0611		692.0645
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	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
<b>Total</b>	<b>0.1399</b>	<b>2.4459</b>	<b>1.0743</b>	<b>7.9000e-003</b>	<b>0.3291</b>	<b>0.0101</b>	<b>0.3392</b>	<b>0.0877</b>	<b>9.6200e-003</b>	<b>0.0973</b>		<b>847.1727</b>	<b>847.1727</b>	<b>0.0661</b>		<b>848.8255</b>

**3.3 Finish Grading - 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					0.0729	0.0000	0.0729	8.2600e-003	0.0000	8.2600e-003			0.0000			0.0000
Off-Road	2.6311	29.1133	18.0635	0.0422		1.1767	1.1767		1.0842	1.0842		4,058.8516	4,058.8516	1.2976		4,091.2909
<b>Total</b>	<b>2.6311</b>	<b>29.1133</b>	<b>18.0635</b>	<b>0.0422</b>	<b>0.0729</b>	<b>1.1767</b>	<b>1.2496</b>	<b>8.2600e-003</b>	<b>1.0842</b>	<b>1.0924</b>		<b>4,058.8516</b>	<b>4,058.8516</b>	<b>1.2976</b>		<b>4,091.2909</b>

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**3.3 Finish Grading - 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	0.0631	2.2258	0.5054	6.2500e-003	0.4058	7.1000e-003	0.4129	0.1036	6.7900e-003	0.1104		683.2394	683.2394	0.0602		684.7440
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	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
<b>Total</b>	<b>0.1291</b>	<b>2.2703</b>	<b>1.0156</b>	<b>7.7700e-003</b>	<b>0.5536</b>	<b>8.1400e-003</b>	<b>0.5618</b>	<b>0.1428</b>	<b>7.7500e-003</b>	<b>0.1506</b>		<b>834.9338</b>	<b>834.9338</b>	<b>0.0647</b>		<b>836.5517</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					0.0328	0.0000	0.0328	3.7200e-003	0.0000	3.7200e-003			0.0000			0.0000
Off-Road	1.0103	20.0646	23.2829	0.0422		0.8726	0.8726		0.8726	0.8726	0.0000	4,058.8516	4,058.8516	1.2976		4,091.2909
<b>Total</b>	<b>1.0103</b>	<b>20.0646</b>	<b>23.2829</b>	<b>0.0422</b>	<b>0.0328</b>	<b>0.8726</b>	<b>0.9054</b>	<b>3.7200e-003</b>	<b>0.8726</b>	<b>0.8763</b>	<b>0.0000</b>	<b>4,058.8516</b>	<b>4,058.8516</b>	<b>1.2976</b>		<b>4,091.2909</b>

NCPWF MR - San Diego County APCD Air District, Summer

**3.3 Finish Grading - 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	0.0631	2.2258	0.5054	6.2500e-003	0.4058	7.1000e-003	0.4129	0.1036	6.7900e-003	0.1104		683.2394	683.2394	0.0602		684.7440
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	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
<b>Total</b>	<b>0.1291</b>	<b>2.2703</b>	<b>1.0156</b>	<b>7.7700e-003</b>	<b>0.5536</b>	<b>8.1400e-003</b>	<b>0.5618</b>	<b>0.1428</b>	<b>7.7500e-003</b>	<b>0.1506</b>		<b>834.9338</b>	<b>834.9338</b>	<b>0.0647</b>		<b>836.5517</b>

**3.4 Building Construction - 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					
Off-Road	2.7935	26.1806	20.6600	0.0345		1.3719	1.3719		1.2760	1.2760		3,263.5060	3,263.5060	0.9826		3,288.0713
<b>Total</b>	<b>2.7935</b>	<b>26.1806</b>	<b>20.6600</b>	<b>0.0345</b>		<b>1.3719</b>	<b>1.3719</b>		<b>1.2760</b>	<b>1.2760</b>		<b>3,263.5060</b>	<b>3,263.5060</b>	<b>0.9826</b>		<b>3,288.0713</b>

NCPWF MR - San Diego County APCD Air District, Summer

**3.4 Building Construction - 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	0.2018	6.0889	1.5512	0.0148	0.3656	0.0298	0.3954	0.1052	0.0285	0.1337		1,587.8164	1,587.8164	0.1171		1,590.7448
Worker	0.4991	0.3363	3.8550	0.0115	1.1172	7.8400e-003	1.1251	0.2963	7.2200e-003	0.3036		1,146.1360	1,146.1360	0.0342		1,146.9916
<b>Total</b>	<b>0.7009</b>	<b>6.4252</b>	<b>5.4063</b>	<b>0.0263</b>	<b>1.4828</b>	<b>0.0376</b>	<b>1.5204</b>	<b>0.4016</b>	<b>0.0357</b>	<b>0.4373</b>		<b>2,733.9524</b>	<b>2,733.9524</b>	<b>0.1514</b>		<b>2,737.7363</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	0.9339	18.8778	22.6613	0.0345		1.1142	1.1142		1.1142	1.1142	0.0000	3,263.5060	3,263.5060	0.9826		3,288.0713
<b>Total</b>	<b>0.9339</b>	<b>18.8778</b>	<b>22.6613</b>	<b>0.0345</b>		<b>1.1142</b>	<b>1.1142</b>		<b>1.1142</b>	<b>1.1142</b>	<b>0.0000</b>	<b>3,263.5060</b>	<b>3,263.5060</b>	<b>0.9826</b>		<b>3,288.0713</b>



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**3.4 Building Construction - 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	0.2018	6.0889	1.5512	0.0148	0.3656	0.0298	0.3954	0.1052	0.0285	0.1337		1,587.8164	1,587.8164	0.1171		1,590.7448
Worker	0.4991	0.3363	3.8550	0.0115	1.1172	7.8400e-003	1.1251	0.2963	7.2200e-003	0.3036		1,146.1360	1,146.1360	0.0342		1,146.9916
<b>Total</b>	<b>0.7009</b>	<b>6.4252</b>	<b>5.4063</b>	<b>0.0263</b>	<b>1.4828</b>	<b>0.0376</b>	<b>1.5204</b>	<b>0.4016</b>	<b>0.0357</b>	<b>0.4373</b>		<b>2,733.9524</b>	<b>2,733.9524</b>	<b>0.1514</b>		<b>2,737.7363</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5183	23.9160	20.2085	0.0345		1.1911	1.1911		1.1077	1.1077		3,263.7123	3,263.7123	0.9754		3,288.0967
<b>Total</b>	<b>2.5183</b>	<b>23.9160</b>	<b>20.2085</b>	<b>0.0345</b>		<b>1.1911</b>	<b>1.1911</b>		<b>1.1077</b>	<b>1.1077</b>		<b>3,263.7123</b>	<b>3,263.7123</b>	<b>0.9754</b>		<b>3,288.0967</b>

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**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1633	5.4988	1.4013	0.0146	0.3656	0.0116	0.3771	0.1052	0.0110	0.1163		1,573.3005	1,573.3005	0.1124		1,576.1109
Worker	0.4704	0.3056	3.6072	0.0111	1.1172	7.7200e-003	1.1249	0.2963	7.1100e-003	0.3034		1,107.6396	1,107.6396	0.0316		1,108.4299
<b>Total</b>	<b>0.6337</b>	<b>5.8044</b>	<b>5.0085</b>	<b>0.0257</b>	<b>1.4828</b>	<b>0.0193</b>	<b>1.5020</b>	<b>0.4016</b>	<b>0.0182</b>	<b>0.4197</b>		<b>2,680.9401</b>	<b>2,680.9401</b>	<b>0.1440</b>		<b>2,684.5408</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	0.9339	18.8778	22.6613	0.0345		1.1142	1.1142		1.1142	1.1142	0.0000	3,263.7123	3,263.7123	0.9754		3,288.0967
<b>Total</b>	<b>0.9339</b>	<b>18.8778</b>	<b>22.6613</b>	<b>0.0345</b>		<b>1.1142</b>	<b>1.1142</b>		<b>1.1142</b>	<b>1.1142</b>	<b>0.0000</b>	<b>3,263.7123</b>	<b>3,263.7123</b>	<b>0.9754</b>		<b>3,288.0967</b>

NCPWF MR - San Diego County APCD Air District, Summer

**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1633	5.4988	1.4013	0.0146	0.3656	0.0116	0.3771	0.1052	0.0110	0.1163		1,573.3005	1,573.3005	0.1124		1,576.1109
Worker	0.4704	0.3056	3.6072	0.0111	1.1172	7.7200e-003	1.1249	0.2963	7.1100e-003	0.3034		1,107.6396	1,107.6396	0.0316		1,108.4299
<b>Total</b>	<b>0.6337</b>	<b>5.8044</b>	<b>5.0085</b>	<b>0.0257</b>	<b>1.4828</b>	<b>0.0193</b>	<b>1.5020</b>	<b>0.4016</b>	<b>0.0182</b>	<b>0.4197</b>		<b>2,680.9401</b>	<b>2,680.9401</b>	<b>0.1440</b>		<b>2,684.5408</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2608	21.3278	19.8684	0.0345		1.0150	1.0150		0.9440	0.9440		3,264.6031	3,264.6031	0.9713		3,288.8852
<b>Total</b>	<b>2.2608</b>	<b>21.3278</b>	<b>19.8684</b>	<b>0.0345</b>		<b>1.0150</b>	<b>1.0150</b>		<b>0.9440</b>	<b>0.9440</b>		<b>3,264.6031</b>	<b>3,264.6031</b>	<b>0.9713</b>		<b>3,288.8852</b>

NCPWF MR - San Diego County APCD Air District, Summer

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1519	5.1966	1.3272	0.0145	0.3656	9.9400e-003	0.3755	0.1052	9.5000e-003	0.1147		1,558.5144	1,558.5144	0.1090		1,561.2388
Worker	0.4447	0.2787	3.3543	0.0107	1.1172	7.5500e-003	1.1248	0.2963	6.9500e-003	0.3033		1,067.0013	1,067.0013	0.0290		1,067.7257
<b>Total</b>	<b>0.5966</b>	<b>5.4753</b>	<b>4.6815</b>	<b>0.0252</b>	<b>1.4828</b>	<b>0.0175</b>	<b>1.5003</b>	<b>0.4016</b>	<b>0.0165</b>	<b>0.4180</b>		<b>2,625.5156</b>	<b>2,625.5156</b>	<b>0.1380</b>		<b>2,628.9645</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	0.9339	18.8778	22.6613	0.0345		1.1142	1.1142		1.1142	1.1142	0.0000	3,264.6030	3,264.6030	0.9713		3,288.8852
<b>Total</b>	<b>0.9339</b>	<b>18.8778</b>	<b>22.6613</b>	<b>0.0345</b>		<b>1.1142</b>	<b>1.1142</b>		<b>1.1142</b>	<b>1.1142</b>	<b>0.0000</b>	<b>3,264.6030</b>	<b>3,264.6030</b>	<b>0.9713</b>		<b>3,288.8852</b>

NCPWF MR - San Diego County APCD Air District, Summer

**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1519	5.1966	1.3272	0.0145	0.3656	9.9400e-003	0.3755	0.1052	9.5000e-003	0.1147		1,558.5144	1,558.5144	0.1090		1,561.2388
Worker	0.4447	0.2787	3.3543	0.0107	1.1172	7.5500e-003	1.1248	0.2963	6.9500e-003	0.3033		1,067.0013	1,067.0013	0.0290		1,067.7257
<b>Total</b>	<b>0.5966</b>	<b>5.4753</b>	<b>4.6815</b>	<b>0.0252</b>	<b>1.4828</b>	<b>0.0175</b>	<b>1.5003</b>	<b>0.4016</b>	<b>0.0165</b>	<b>0.4180</b>		<b>2,625.5156</b>	<b>2,625.5156</b>	<b>0.1380</b>		<b>2,628.9645</b>

**3.5 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.2006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0361	0.5603	1.0940	1.6800e-003		0.0104	0.0104		9.5700e-003	9.5700e-003		162.6199	162.6199	0.0526		163.9347
<b>Total</b>	<b>21.2367</b>	<b>0.5603</b>	<b>1.0940</b>	<b>1.6800e-003</b>		<b>0.0104</b>	<b>0.0104</b>		<b>9.5700e-003</b>	<b>9.5700e-003</b>		<b>162.6199</b>	<b>162.6199</b>	<b>0.0526</b>		<b>163.9347</b>

NCPWF MR - San Diego County APCD Air District, Summer

**3.5 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0916	0.0574	0.6906	2.2000e-003	0.2300	1.5500e-003	0.2316	0.0610	1.4300e-003	0.0624		219.6767	219.6767	5.9700e-003		219.8259
<b>Total</b>	<b>0.0916</b>	<b>0.0574</b>	<b>0.6906</b>	<b>2.2000e-003</b>	<b>0.2300</b>	<b>1.5500e-003</b>	<b>0.2316</b>	<b>0.0610</b>	<b>1.4300e-003</b>	<b>0.0624</b>		<b>219.6767</b>	<b>219.6767</b>	<b>5.9700e-003</b>		<b>219.8259</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					
Archit. Coating	21.2006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0413	0.9438	1.2745	1.6800e-003		0.0661	0.0661		0.0661	0.0661	0.0000	162.6199	162.6199	0.0526		163.9347
<b>Total</b>	<b>21.2419</b>	<b>0.9438</b>	<b>1.2745</b>	<b>1.6800e-003</b>		<b>0.0661</b>	<b>0.0661</b>		<b>0.0661</b>	<b>0.0661</b>	<b>0.0000</b>	<b>162.6199</b>	<b>162.6199</b>	<b>0.0526</b>		<b>163.9347</b>

NCPWF MR - San Diego County APCD Air District, Summer

**3.5 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0916	0.0574	0.6906	2.2000e-003	0.2300	1.5500e-003	0.2316	0.0610	1.4300e-003	0.0624		219.6767	219.6767	5.9700e-003		219.8259
<b>Total</b>	<b>0.0916</b>	<b>0.0574</b>	<b>0.6906</b>	<b>2.2000e-003</b>	<b>0.2300</b>	<b>1.5500e-003</b>	<b>0.2316</b>	<b>0.0610</b>	<b>1.4300e-003</b>	<b>0.0624</b>		<b>219.6767</b>	<b>219.6767</b>	<b>5.9700e-003</b>		<b>219.8259</b>

**3.6 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	2.2619	19.9772	24.2003	0.0452		0.9894	0.9894		0.9247	0.9247		4,359.1852	4,359.1852	1.2382		4,390.1400
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2619</b>	<b>19.9772</b>	<b>24.2003</b>	<b>0.0452</b>		<b>0.9894</b>	<b>0.9894</b>		<b>0.9247</b>	<b>0.9247</b>		<b>4,359.1852</b>	<b>4,359.1852</b>	<b>1.2382</b>		<b>4,390.1400</b>

NCPWF MR - San Diego County APCD Air District, Summer

**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0785	0.0492	0.5919	1.8900e-003	0.1972	1.3300e-003	0.1985	0.0523	1.2300e-003	0.0535		188.2943	188.2943	5.1100e-003		188.4222
<b>Total</b>	<b>0.0785</b>	<b>0.0492</b>	<b>0.5919</b>	<b>1.8900e-003</b>	<b>0.1972</b>	<b>1.3300e-003</b>	<b>0.1985</b>	<b>0.0523</b>	<b>1.2300e-003</b>	<b>0.0535</b>		<b>188.2943</b>	<b>188.2943</b>	<b>5.1100e-003</b>		<b>188.4222</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	1.0759	22.2742	30.2103	0.0452		1.2201	1.2201		1.2201	1.2201	0.0000	4,359.1852	4,359.1852	1.2382		4,390.1400
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0759</b>	<b>22.2742</b>	<b>30.2103</b>	<b>0.0452</b>		<b>1.2201</b>	<b>1.2201</b>		<b>1.2201</b>	<b>1.2201</b>	<b>0.0000</b>	<b>4,359.1852</b>	<b>4,359.1852</b>	<b>1.2382</b>		<b>4,390.1400</b>



NCPWF MR - San Diego County APCD Air District, Summer

**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0785	0.0492	0.5919	1.8900e-003	0.1972	1.3300e-003	0.1985	0.0523	1.2300e-003	0.0535		188.2943	188.2943	5.1100e-003		188.4222
<b>Total</b>	<b>0.0785</b>	<b>0.0492</b>	<b>0.5919</b>	<b>1.8900e-003</b>	<b>0.1972</b>	<b>1.3300e-003</b>	<b>0.1985</b>	<b>0.0523</b>	<b>1.2300e-003</b>	<b>0.0535</b>		<b>188.2943</b>	<b>188.2943</b>	<b>5.1100e-003</b>		<b>188.4222</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6424	2.8050	8.8181	0.0329	2.9120	0.0259	2.9378	0.7783	0.0242	0.8024		3,343.3513	3,343.3513	0.1605		3,347.3634
Unmitigated	0.6424	2.8050	8.8181	0.0329	2.9120	0.0259	2.9378	0.7783	0.0242	0.8024		3,343.3513	3,343.3513	0.1605		3,347.3634

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	32.25	201.68	322.47	416,990	416,990
Total	32.25	201.68	322.47	416,990	416,990

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	0.00	0.00	11.70	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

5.0 Energy Detail

Historical Energy Use: N

NCPWF MR - San Diego County APCD Air District, Summer

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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>

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**5.2 Energy by Land Use - Natural Gas**

**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					
General Light Industry	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**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

NCPWF MR - San Diego County APCD Air District, 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	7.7229	3.0000e-004	0.0330	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0706	0.0706	1.9000e-004		0.0752
Unmitigated	7.7229	3.0000e-004	0.0330	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0706	0.0706	1.9000e-004		0.0752

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	0.8190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0700e-003	3.0000e-004	0.0330	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0706	0.0706	1.9000e-004		0.0752
<b>Total</b>	<b>7.7229</b>	<b>3.0000e-004</b>	<b>0.0330</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0706</b>	<b>0.0706</b>	<b>1.9000e-004</b>		<b>0.0752</b>

NCPWF MR - San Diego County APCD Air District, 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	0.8190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0700e-003	3.0000e-004	0.0330	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0706	0.0706	1.9000e-004		0.0752
<b>Total</b>	<b>7.7229</b>	<b>3.0000e-004</b>	<b>0.0330</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0706</b>	<b>0.0706</b>	<b>1.9000e-004</b>		<b>0.0752</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

NCPWF MR - San Diego County APCD Air District, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	8	50	1000	0.73	Diesel

**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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**10.1 Stationary Sources**

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	13.1285	58.7100	33.4750	0.0631		1.9313	1.9313		1.9313	1.9313		6,716.1130	6,716.1130	0.9416		6,739.6530
<b>Total</b>	<b>13.1285</b>	<b>58.7100</b>	<b>33.4750</b>	<b>0.0631</b>		<b>1.9313</b>	<b>1.9313</b>		<b>1.9313</b>	<b>1.9313</b>		<b>6,716.1130</b>	<b>6,716.1130</b>	<b>0.9416</b>		<b>6,739.6530</b>

**11.0 Vegetation**

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NCPWF MR - San Diego County APCD Air District, Winter

**NCPWF MR**

**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	322.47	1000sqft	7.40	322,468.42	37

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.



NCPWF MR - San Diego County APCD Air District, Winter

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1 for interior and exterior coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SDAPCD Rule 67.0.1 for interior and exterior architectural coatings.

Landscape Equipment - CalEEMod defaults.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - EPA waste generation of 4.46 lb/person/day

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1 for interior and exterior architectural coatings.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - See section 7.2.2 for additional information on the emergency generator.

Stationary Sources - Process Boilers - No stationary sources.

NCPWF MR - San Diego County APCD Air District, Winter

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - CalEEMod defaults.

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

NCPWF MR - San Diego County APCD Air District, Winter

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	300.00	8.50
tblGrading	AcresOfGrading	211.50	8.50
tblGrading	MaterialExported	0.00	9,000.00
tblGrading	MaterialExported	0.00	9,000.00
tblLandUse	BuildingSpaceSquareFeet	322,470.00	322,468.42
tblLandUse	LandUseSquareFeet	322,470.00	322,468.42
tblLandUse	Population	0.00	37.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblSolidWaste	SolidWasteGenerationRate	399.86	21.45

## NCPWF MR - San Diego County APCD Air District, Winter

tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,000.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	8.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	VendorTripNumber	53.00	54.00
tblTripsAndVMT	WorkerTripNumber	35.00	36.00
tblTripsAndVMT	WorkerTripNumber	135.00	136.00
tblTripsAndVMT	WorkerTripNumber	27.00	28.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	11.70
tblVehicleTrips	CNW_TTP	13.00	100.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	0.63
tblVehicleTrips	SU_TR	0.68	1.00
tblVehicleTrips	WD_TR	6.97	0.10
tblWater	IndoorWaterUseRate	74,571,187.50	769,600.00

## 2.0 Emissions Summary

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NCPWF MR - San Diego County APCD Air District, 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					
2019	9.3473	109.8127	59.1318	0.1341	12.8389	4.3701	17.2089	6.8081	4.0228	10.8309	0.0000	13,397.8119	13,397.8119	3.7847	0.0000	13,492.4301
2020	3.5700	32.6421	26.0160	0.0597	1.4828	1.4101	2.8929	0.4016	1.3123	1.7139	0.0000	5,886.3414	5,886.3414	1.3641	0.0000	5,914.8284
2021	3.2239	29.7433	25.1596	0.0592	1.4828	1.2109	2.6936	0.4016	1.1263	1.5278	0.0000	5,836.1212	5,836.1212	1.1247	0.0000	5,864.2374
2022	21.3407	26.8195	24.7556	0.0587	1.4828	1.0329	2.5156	0.4016	0.9609	1.3624	0.0000	5,784.2320	5,784.2320	1.2430	0.0000	5,812.0874
<b>Maximum</b>	<b>21.3407</b>	<b>109.8127</b>	<b>59.1318</b>	<b>0.1341</b>	<b>12.8389</b>	<b>4.3701</b>	<b>17.2089</b>	<b>6.8081</b>	<b>4.0228</b>	<b>10.8309</b>	<b>0.0000</b>	<b>13,397.8119</b>	<b>13,397.8119</b>	<b>3.7847</b>	<b>0.0000</b>	<b>13,492.4301</b>



NCPWF MR - San Diego County APCD Air District, 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	7.7229	3.0000e-004	0.0330	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0706	0.0706	1.9000e-004		0.0752
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	0.6242	2.9037	8.4658	0.0312	2.9120	0.0260	2.9380	0.7783	0.0243	0.8025		3,174.0955	3,174.0955	0.1595		3,178.0836
Stationary	13.1285	58.7100	33.4750	0.0631		1.9313	1.9313		1.9313	1.9313		6,716.1130	6,716.1130	0.9416		6,739.6530
<b>Total</b>	<b>21.4756</b>	<b>61.6139</b>	<b>41.9738</b>	<b>0.0943</b>	<b>2.9120</b>	<b>1.9573</b>	<b>4.8693</b>	<b>0.7783</b>	<b>1.9556</b>	<b>2.7339</b>		<b>9,890.2790</b>	<b>9,890.2790</b>	<b>1.1013</b>	<b>0.0000</b>	<b>9,917.8118</b>

NCPWF MR - San Diego County APCD Air District, Winter

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.7229	3.0000e-004	0.0330	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0706	0.0706	1.9000e-004		0.0752
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	0.6242	2.9037	8.4658	0.0312	2.9120	0.0260	2.9380	0.7783	0.0243	0.8025		3,174.0955	3,174.0955	0.1595		3,178.0836
Stationary	13.1285	58.7100	33.4750	0.0631		1.9313	1.9313		1.9313	1.9313		6,716.1130	6,716.1130	0.9416		6,739.6530
<b>Total</b>	<b>21.4756</b>	<b>61.6139</b>	<b>41.9738</b>	<b>0.0943</b>	<b>2.9120</b>	<b>1.9573</b>	<b>4.8693</b>	<b>0.7783</b>	<b>1.9556</b>	<b>2.7339</b>		<b>9,890.2790</b>	<b>9,890.2790</b>	<b>1.1013</b>	<b>0.0000</b>	<b>9,917.8118</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**



NCPWF MR - San Diego County APCD Air District, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Mass Grading	Grading	5/21/2019	8/12/2019	5	60	
2	Finish Grading	Grading	8/13/2019	2/25/2020	5	141	
3	Building Construction	Building Construction	2/26/2020	4/22/2022	5	563	
4	Architectural Coating	Architectural Coating	5/7/2022	11/21/2022	5	141	
5	Paving	Paving	4/23/2022	5/6/2022	5	10	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 483,703; Non-Residential Outdoor: 161,234; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

NCPWF MR - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mass Grading	Excavators	1	8.00	158	0.38
Mass Grading	Graders	2	8.00	187	0.41
Mass Grading	Off-Highway Trucks	1	8.00	402	0.38
Mass Grading	Plate Compactors	2	8.00	8	0.43
Mass Grading	Rubber Tired Dozers	2	8.00	247	0.40
Mass Grading	Scrapers	4	8.00	367	0.48
Mass Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Finish Grading	Graders	1	8.00	187	0.41
Finish Grading	Off-Highway Trucks	1	8.00	402	0.38
Finish Grading	Plate Compactors	2	8.00	8	0.43
Finish Grading	Scrapers	1	8.00	367	0.48
Finish Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	2	8.00	63	0.31
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Rollers	2	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Aerial Lifts	1	8.00	63	0.31
Paving	Crushing/Proc. Equipment	1	8.00	85	0.78
Paving	Off-Highway Trucks	1	8.00	402	0.38
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

NCPWF MR - San Diego County APCD Air District, 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
Mass Grading	14	36.00	0.00	1,125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finish Grading	7	18.00	0.00	1,125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	136.00	54.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Mass Grading - 2019**

**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					12.2155	0.0000	12.2155	6.6399	0.0000	6.6399			0.0000			0.0000
Off-Road	9.0201	104.0122	56.7763	0.1165		4.3462	4.3462		4.0001	4.0001		11,508.268	11,508.268	3.6264		11,598.929
<b>Total</b>	<b>9.0201</b>	<b>104.0122</b>	<b>56.7763</b>	<b>0.1165</b>	<b>12.2155</b>	<b>4.3462</b>	<b>16.5617</b>	<b>6.6399</b>	<b>4.0001</b>	<b>10.6399</b>		<b>11,508.2688</b>	<b>11,508.2688</b>	<b>3.6264</b>		<b>11,598.9297</b>

NCPWF MR - San Diego County APCD Air District, Winter

**3.2 Mass Grading - 2019**

**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	0.1673	5.6897	1.3029	0.0146	0.3276	0.0218	0.3494	0.0898	0.0208	0.1106		1,595.454 1	1,595.454 1	0.1488		1,599.174 2
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	0.1599	0.1108	1.0526	2.9500e-003	0.2957	2.1100e-003	0.2978	0.0784	1.9400e-003	0.0804		294.0890	294.0890	9.4900e-003		294.3262
<b>Total</b>	<b>0.3272</b>	<b>5.8005</b>	<b>2.3555</b>	<b>0.0176</b>	<b>0.6234</b>	<b>0.0239</b>	<b>0.6472</b>	<b>0.1682</b>	<b>0.0228</b>	<b>0.1910</b>		<b>1,889.543 0</b>	<b>1,889.543 0</b>	<b>0.1583</b>		<b>1,893.500 4</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					5.4970	0.0000	5.4970	2.9879	0.0000	2.9879			0.0000			0.0000
Off-Road	2.8364	55.3681	64.0120	0.1165		2.2371	2.2371		2.2371	2.2371	0.0000	11,508.268 8	11,508.268 8	3.6264		11,598.929 7
<b>Total</b>	<b>2.8364</b>	<b>55.3681</b>	<b>64.0120</b>	<b>0.1165</b>	<b>5.4970</b>	<b>2.2371</b>	<b>7.7341</b>	<b>2.9879</b>	<b>2.2371</b>	<b>5.2250</b>	<b>0.0000</b>	<b>11,508.26 88</b>	<b>11,508.26 88</b>	<b>3.6264</b>		<b>11,598.92 97</b>

NCPWF MR - San Diego County APCD Air District, Winter

**3.2 Mass Grading - 2019**

**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	0.1673	5.6897	1.3029	0.0146	0.3276	0.0218	0.3494	0.0898	0.0208	0.1106		1,595.4541	1,595.4541	0.1488		1,599.1742
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	0.1599	0.1108	1.0526	2.9500e-003	0.2957	2.1100e-003	0.2978	0.0784	1.9400e-003	0.0804		294.0890	294.0890	9.4900e-003		294.3262
<b>Total</b>	<b>0.3272</b>	<b>5.8005</b>	<b>2.3555</b>	<b>0.0176</b>	<b>0.6234</b>	<b>0.0239</b>	<b>0.6472</b>	<b>0.1682</b>	<b>0.0228</b>	<b>0.1910</b>		<b>1,889.5430</b>	<b>1,889.5430</b>	<b>0.1583</b>		<b>1,893.5004</b>

**3.3 Finish Grading - 2019**

**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					0.0729	0.0000	0.0729	8.2600e-003	0.0000	8.2600e-003			0.0000			0.0000
Off-Road	2.8077	31.8604	18.9226	0.0422		1.3102	1.3102		1.2070	1.2070		4,149.2157	4,149.2157	1.2981		4,181.6684
<b>Total</b>	<b>2.8077</b>	<b>31.8604</b>	<b>18.9226</b>	<b>0.0422</b>	<b>0.0729</b>	<b>1.3102</b>	<b>1.3831</b>	<b>8.2600e-003</b>	<b>1.2070</b>	<b>1.2152</b>		<b>4,149.2157</b>	<b>4,149.2157</b>	<b>1.2981</b>		<b>4,181.6684</b>

NCPWF MR - San Diego County APCD Air District, Winter

**3.3 Finish Grading - 2019**

**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	0.0712	2.4212	0.5544	6.2200e-003	0.1812	9.2600e-003	0.1905	0.0485	8.8500e-003	0.0573		678.9166	678.9166	0.0633		680.4997
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	0.0799	0.0554	0.5263	1.4800e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		147.0445	147.0445	4.7400e-003		147.1631
<b>Total</b>	<b>0.1511</b>	<b>2.4765</b>	<b>1.0807</b>	<b>7.7000e-003</b>	<b>0.3291</b>	<b>0.0103</b>	<b>0.3394</b>	<b>0.0877</b>	<b>9.8200e-003</b>	<b>0.0975</b>		<b>825.9611</b>	<b>825.9611</b>	<b>0.0681</b>		<b>827.6628</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					0.0328	0.0000	0.0328	3.7200e-003	0.0000	3.7200e-003			0.0000			0.0000
Off-Road	1.0103	20.0646	23.2829	0.0422		0.8726	0.8726		0.8726	0.8726	0.0000	4,149.2157	4,149.2157	1.2981		4,181.6684
<b>Total</b>	<b>1.0103</b>	<b>20.0646</b>	<b>23.2829</b>	<b>0.0422</b>	<b>0.0328</b>	<b>0.8726</b>	<b>0.9054</b>	<b>3.7200e-003</b>	<b>0.8726</b>	<b>0.8763</b>	<b>0.0000</b>	<b>4,149.2157</b>	<b>4,149.2157</b>	<b>1.2981</b>		<b>4,181.6684</b>

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**3.3 Finish Grading - 2019**

**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	0.0712	2.4212	0.5544	6.2200e-003	0.1812	9.2600e-003	0.1905	0.0485	8.8500e-003	0.0573		678.9166	678.9166	0.0633		680.4997
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	0.0799	0.0554	0.5263	1.4800e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		147.0445	147.0445	4.7400e-003		147.1631
<b>Total</b>	<b>0.1511</b>	<b>2.4765</b>	<b>1.0807</b>	<b>7.7000e-003</b>	<b>0.3291</b>	<b>0.0103</b>	<b>0.3394</b>	<b>0.0877</b>	<b>9.8200e-003</b>	<b>0.0975</b>		<b>825.9611</b>	<b>825.9611</b>	<b>0.0681</b>		<b>827.6628</b>

**3.3 Finish Grading - 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					0.0729	0.0000	0.0729	8.2600e-003	0.0000	8.2600e-003			0.0000			0.0000
Off-Road	2.6311	29.1133	18.0635	0.0422		1.1767	1.1767		1.0842	1.0842		4,058.8516	4,058.8516	1.2976		4,091.2909
<b>Total</b>	<b>2.6311</b>	<b>29.1133</b>	<b>18.0635</b>	<b>0.0422</b>	<b>0.0729</b>	<b>1.1767</b>	<b>1.2496</b>	<b>8.2600e-003</b>	<b>1.0842</b>	<b>1.0924</b>		<b>4,058.8516</b>	<b>4,058.8516</b>	<b>1.2976</b>		<b>4,091.2909</b>

NCPWF MR - San Diego County APCD Air District, Winter

**3.3 Finish Grading - 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	0.0648	2.2472	0.5388	6.1400e-003	0.4058	7.2500e-003	0.4130	0.1036	6.9400e-003	0.1105		671.5176	671.5176	0.0622		673.0738
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	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109
<b>Total</b>	<b>0.1396</b>	<b>2.2972</b>	<b>1.0198</b>	<b>7.5700e-003</b>	<b>0.5536</b>	<b>8.2900e-003</b>	<b>0.5619</b>	<b>0.1428</b>	<b>7.9000e-003</b>	<b>0.1507</b>		<b>813.9214</b>	<b>813.9214</b>	<b>0.0665</b>		<b>815.5847</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					0.0328	0.0000	0.0328	3.7200e-003	0.0000	3.7200e-003			0.0000			0.0000
Off-Road	1.0103	20.0646	23.2829	0.0422		0.8726	0.8726		0.8726	0.8726	0.0000	4,058.8516	4,058.8516	1.2976		4,091.2909
<b>Total</b>	<b>1.0103</b>	<b>20.0646</b>	<b>23.2829</b>	<b>0.0422</b>	<b>0.0328</b>	<b>0.8726</b>	<b>0.9054</b>	<b>3.7200e-003</b>	<b>0.8726</b>	<b>0.8763</b>	<b>0.0000</b>	<b>4,058.8516</b>	<b>4,058.8516</b>	<b>1.2976</b>		<b>4,091.2909</b>



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**3.3 Finish Grading - 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	0.0648	2.2472	0.5388	6.1400e-003	0.4058	7.2500e-003	0.4130	0.1036	6.9400e-003	0.1105		671.5176	671.5176	0.0622		673.0738
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	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109
<b>Total</b>	<b>0.1396</b>	<b>2.2972</b>	<b>1.0198</b>	<b>7.5700e-003</b>	<b>0.5536</b>	<b>8.2900e-003</b>	<b>0.5619</b>	<b>0.1428</b>	<b>7.9000e-003</b>	<b>0.1507</b>		<b>813.9214</b>	<b>813.9214</b>	<b>0.0665</b>		<b>815.5847</b>

**3.4 Building Construction - 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					
Off-Road	2.7935	26.1806	20.6600	0.0345		1.3719	1.3719		1.2760	1.2760		3,263.5060	3,263.5060	0.9826		3,288.0713
<b>Total</b>	<b>2.7935</b>	<b>26.1806</b>	<b>20.6600</b>	<b>0.0345</b>		<b>1.3719</b>	<b>1.3719</b>		<b>1.2760</b>	<b>1.2760</b>		<b>3,263.5060</b>	<b>3,263.5060</b>	<b>0.9826</b>		<b>3,288.0713</b>

NCPWF MR - San Diego County APCD Air District, Winter

**3.4 Building Construction - 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	0.2113	6.0840	1.7215	0.0144	0.3656	0.0304	0.3959	0.1052	0.0290	0.1343		1,546.8960	1,546.8960	0.1245		1,550.0078
Worker	0.5652	0.3775	3.6346	0.0108	1.1172	7.8400e-003	1.1251	0.2963	7.2200e-003	0.3036		1,075.9395	1,075.9395	0.0324		1,076.7493
<b>Total</b>	<b>0.7766</b>	<b>6.4616</b>	<b>5.3561</b>	<b>0.0252</b>	<b>1.4828</b>	<b>0.0382</b>	<b>1.5210</b>	<b>0.4016</b>	<b>0.0363</b>	<b>0.4378</b>		<b>2,622.8354</b>	<b>2,622.8354</b>	<b>0.1569</b>		<b>2,626.7571</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	0.9339	18.8778	22.6613	0.0345		1.1142	1.1142		1.1142	1.1142	0.0000	3,263.5060	3,263.5060	0.9826		3,288.0713
<b>Total</b>	<b>0.9339</b>	<b>18.8778</b>	<b>22.6613</b>	<b>0.0345</b>		<b>1.1142</b>	<b>1.1142</b>		<b>1.1142</b>	<b>1.1142</b>	<b>0.0000</b>	<b>3,263.5060</b>	<b>3,263.5060</b>	<b>0.9826</b>		<b>3,288.0713</b>

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**3.4 Building Construction - 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	0.2113	6.0840	1.7215	0.0144	0.3656	0.0304	0.3959	0.1052	0.0290	0.1343		1,546.8960	1,546.8960	0.1245		1,550.0078
Worker	0.5652	0.3775	3.6346	0.0108	1.1172	7.8400e-003	1.1251	0.2963	7.2200e-003	0.3036		1,075.9395	1,075.9395	0.0324		1,076.7493
<b>Total</b>	<b>0.7766</b>	<b>6.4616</b>	<b>5.3561</b>	<b>0.0252</b>	<b>1.4828</b>	<b>0.0382</b>	<b>1.5210</b>	<b>0.4016</b>	<b>0.0363</b>	<b>0.4378</b>		<b>2,622.8354</b>	<b>2,622.8354</b>	<b>0.1569</b>		<b>2,626.7571</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5183	23.9160	20.2085	0.0345		1.1911	1.1911		1.1077	1.1077		3,263.7123	3,263.7123	0.9754		3,288.0967
<b>Total</b>	<b>2.5183</b>	<b>23.9160</b>	<b>20.2085</b>	<b>0.0345</b>		<b>1.1911</b>	<b>1.1911</b>		<b>1.1077</b>	<b>1.1077</b>		<b>3,263.7123</b>	<b>3,263.7123</b>	<b>0.9754</b>		<b>3,288.0967</b>

NCPWF MR - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1721	5.4842	1.5603	0.0143	0.3656	0.0120	0.3776	0.1052	0.0115	0.1167		1,532.624 2	1,532.624 2	0.1194		1,535.609 1
Worker	0.5335	0.3431	3.3908	0.0104	1.1172	7.7200e-003	1.1249	0.2963	7.1100e-003	0.3034		1,039.784 7	1,039.784 7	0.0299		1,040.531 5
<b>Total</b>	<b>0.7056</b>	<b>5.8272</b>	<b>4.9511</b>	<b>0.0247</b>	<b>1.4828</b>	<b>0.0197</b>	<b>1.5025</b>	<b>0.4016</b>	<b>0.0186</b>	<b>0.4202</b>		<b>2,572.408 9</b>	<b>2,572.408 9</b>	<b>0.1493</b>		<b>2,576.140 6</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	0.9339	18.8778	22.6613	0.0345		1.1142	1.1142		1.1142	1.1142	0.0000	3,263.712 3	3,263.712 3	0.9754		3,288.096 7
<b>Total</b>	<b>0.9339</b>	<b>18.8778</b>	<b>22.6613</b>	<b>0.0345</b>		<b>1.1142</b>	<b>1.1142</b>		<b>1.1142</b>	<b>1.1142</b>	<b>0.0000</b>	<b>3,263.712 3</b>	<b>3,263.712 3</b>	<b>0.9754</b>		<b>3,288.096 7</b>

NCPWF MR - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1721	5.4842	1.5603	0.0143	0.3656	0.0120	0.3776	0.1052	0.0115	0.1167		1,532.624 2	1,532.624 2	0.1194		1,535.609 1
Worker	0.5335	0.3431	3.3908	0.0104	1.1172	7.7200e-003	1.1249	0.2963	7.1100e-003	0.3034		1,039.784 7	1,039.784 7	0.0299		1,040.531 5
<b>Total</b>	<b>0.7056</b>	<b>5.8272</b>	<b>4.9511</b>	<b>0.0247</b>	<b>1.4828</b>	<b>0.0197</b>	<b>1.5025</b>	<b>0.4016</b>	<b>0.0186</b>	<b>0.4202</b>		<b>2,572.408 9</b>	<b>2,572.408 9</b>	<b>0.1493</b>		<b>2,576.140 6</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2608	21.3278	19.8684	0.0345		1.0150	1.0150		0.9440	0.9440		3,264.603 1	3,264.603 1	0.9713		3,288.885 2
<b>Total</b>	<b>2.2608</b>	<b>21.3278</b>	<b>19.8684</b>	<b>0.0345</b>		<b>1.0150</b>	<b>1.0150</b>		<b>0.9440</b>	<b>0.9440</b>		<b>3,264.603 1</b>	<b>3,264.603 1</b>	<b>0.9713</b>		<b>3,288.885 2</b>

NCPWF MR - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1601	5.1790	1.4773	0.0141	0.3656	0.0104	0.3759	0.1052	9.9000e-003	0.1151		1,517.9541	1,517.9541	0.1156		1,520.8437
Worker	0.5055	0.3128	3.1464	0.0101	1.1172	7.5500e-003	1.1248	0.2963	6.9500e-003	0.3033		1,001.6748	1,001.6748	0.0274		1,002.3585
<b>Total</b>	<b>0.6656</b>	<b>5.4917</b>	<b>4.6237</b>	<b>0.0241</b>	<b>1.4828</b>	<b>0.0179</b>	<b>1.5007</b>	<b>0.4016</b>	<b>0.0169</b>	<b>0.4184</b>		<b>2,519.6289</b>	<b>2,519.6289</b>	<b>0.1429</b>		<b>2,523.2023</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	0.9339	18.8778	22.6613	0.0345		1.1142	1.1142		1.1142	1.1142	0.0000	3,264.6030	3,264.6030	0.9713		3,288.8852
<b>Total</b>	<b>0.9339</b>	<b>18.8778</b>	<b>22.6613</b>	<b>0.0345</b>		<b>1.1142</b>	<b>1.1142</b>		<b>1.1142</b>	<b>1.1142</b>	<b>0.0000</b>	<b>3,264.6030</b>	<b>3,264.6030</b>	<b>0.9713</b>		<b>3,288.8852</b>

NCPWF MR - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1601	5.1790	1.4773	0.0141	0.3656	0.0104	0.3759	0.1052	9.9000e-003	0.1151		1,517.9541	1,517.9541	0.1156		1,520.8437
Worker	0.5055	0.3128	3.1464	0.0101	1.1172	7.5500e-003	1.1248	0.2963	6.9500e-003	0.3033		1,001.6748	1,001.6748	0.0274		1,002.3585
<b>Total</b>	<b>0.6656</b>	<b>5.4917</b>	<b>4.6237</b>	<b>0.0241</b>	<b>1.4828</b>	<b>0.0179</b>	<b>1.5007</b>	<b>0.4016</b>	<b>0.0169</b>	<b>0.4184</b>		<b>2,519.6289</b>	<b>2,519.6289</b>	<b>0.1429</b>		<b>2,523.2023</b>

**3.5 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.2006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0361	0.5603	1.0940	1.6800e-003		0.0104	0.0104		9.5700e-003	9.5700e-003		162.6199	162.6199	0.0526		163.9347
<b>Total</b>	<b>21.2367</b>	<b>0.5603</b>	<b>1.0940</b>	<b>1.6800e-003</b>		<b>0.0104</b>	<b>0.0104</b>		<b>9.5700e-003</b>	<b>9.5700e-003</b>		<b>162.6199</b>	<b>162.6199</b>	<b>0.0526</b>		<b>163.9347</b>

NCPWF MR - San Diego County APCD Air District, Winter

**3.5 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1041	0.0644	0.6478	2.0700e-003	0.2300	1.5500e-003	0.2316	0.0610	1.4300e-003	0.0624		206.2272	206.2272	5.6300e-003		206.3679
<b>Total</b>	<b>0.1041</b>	<b>0.0644</b>	<b>0.6478</b>	<b>2.0700e-003</b>	<b>0.2300</b>	<b>1.5500e-003</b>	<b>0.2316</b>	<b>0.0610</b>	<b>1.4300e-003</b>	<b>0.0624</b>		<b>206.2272</b>	<b>206.2272</b>	<b>5.6300e-003</b>		<b>206.3679</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					
Archit. Coating	21.2006					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0413	0.9438	1.2745	1.6800e-003		0.0661	0.0661		0.0661	0.0661	0.0000	162.6199	162.6199	0.0526		163.9347
<b>Total</b>	<b>21.2419</b>	<b>0.9438</b>	<b>1.2745</b>	<b>1.6800e-003</b>		<b>0.0661</b>	<b>0.0661</b>		<b>0.0661</b>	<b>0.0661</b>	<b>0.0000</b>	<b>162.6199</b>	<b>162.6199</b>	<b>0.0526</b>		<b>163.9347</b>



NCPWF MR - San Diego County APCD Air District, Winter

**3.5 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1041	0.0644	0.6478	2.0700e-003	0.2300	1.5500e-003	0.2316	0.0610	1.4300e-003	0.0624		206.2272	206.2272	5.6300e-003		206.3679
<b>Total</b>	<b>0.1041</b>	<b>0.0644</b>	<b>0.6478</b>	<b>2.0700e-003</b>	<b>0.2300</b>	<b>1.5500e-003</b>	<b>0.2316</b>	<b>0.0610</b>	<b>1.4300e-003</b>	<b>0.0624</b>		<b>206.2272</b>	<b>206.2272</b>	<b>5.6300e-003</b>		<b>206.3679</b>

**3.6 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	2.2619	19.9772	24.2003	0.0452		0.9894	0.9894		0.9247	0.9247		4,359.1852	4,359.1852	1.2382		4,390.1400
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2619</b>	<b>19.9772</b>	<b>24.2003</b>	<b>0.0452</b>		<b>0.9894</b>	<b>0.9894</b>		<b>0.9247</b>	<b>0.9247</b>		<b>4,359.1852</b>	<b>4,359.1852</b>	<b>1.2382</b>		<b>4,390.1400</b>

NCPWF MR - San Diego County APCD Air District, Winter

**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0892	0.0552	0.5552	1.7700e-003	0.1972	1.3300e-003	0.1985	0.0523	1.2300e-003	0.0535		176.7661	176.7661	4.8300e-003		176.8868
<b>Total</b>	<b>0.0892</b>	<b>0.0552</b>	<b>0.5552</b>	<b>1.7700e-003</b>	<b>0.1972</b>	<b>1.3300e-003</b>	<b>0.1985</b>	<b>0.0523</b>	<b>1.2300e-003</b>	<b>0.0535</b>		<b>176.7661</b>	<b>176.7661</b>	<b>4.8300e-003</b>		<b>176.8868</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	1.0759	22.2742	30.2103	0.0452		1.2201	1.2201		1.2201	1.2201	0.0000	4,359.1852	4,359.1852	1.2382		4,390.1400
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0759</b>	<b>22.2742</b>	<b>30.2103</b>	<b>0.0452</b>		<b>1.2201</b>	<b>1.2201</b>		<b>1.2201</b>	<b>1.2201</b>	<b>0.0000</b>	<b>4,359.1852</b>	<b>4,359.1852</b>	<b>1.2382</b>		<b>4,390.1400</b>

NCPWF MR - San Diego County APCD Air District, Winter

**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0892	0.0552	0.5552	1.7700e-003	0.1972	1.3300e-003	0.1985	0.0523	1.2300e-003	0.0535		176.7661	176.7661	4.8300e-003		176.8868
<b>Total</b>	<b>0.0892</b>	<b>0.0552</b>	<b>0.5552</b>	<b>1.7700e-003</b>	<b>0.1972</b>	<b>1.3300e-003</b>	<b>0.1985</b>	<b>0.0523</b>	<b>1.2300e-003</b>	<b>0.0535</b>		<b>176.7661</b>	<b>176.7661</b>	<b>4.8300e-003</b>		<b>176.8868</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

NCPWF MR - San Diego County APCD Air District, 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	0.6242	2.9037	8.4658	0.0312	2.9120	0.0260	2.9380	0.7783	0.0243	0.8025		3,174.0955	3,174.0955	0.1595		3,178.0836
Unmitigated	0.6242	2.9037	8.4658	0.0312	2.9120	0.0260	2.9380	0.7783	0.0243	0.8025		3,174.0955	3,174.0955	0.1595		3,178.0836

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	32.25	201.68	322.47	416,990	416,990
Total	32.25	201.68	322.47	416,990	416,990

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	0.00	0.00	11.70	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

5.0 Energy Detail

Historical Energy Use: N

NCPWF MR - San Diego County APCD Air District, Winter

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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	
<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>	

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**5.2 Energy by Land Use - Natural Gas**

**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					
General Light Industry	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**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

NCPWF MR - San Diego County APCD Air District, 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	7.7229	3.0000e-004	0.0330	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0706	0.0706	1.9000e-004		0.0752
Unmitigated	7.7229	3.0000e-004	0.0330	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0706	0.0706	1.9000e-004		0.0752

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	0.8190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0700e-003	3.0000e-004	0.0330	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0706	0.0706	1.9000e-004		0.0752
<b>Total</b>	<b>7.7229</b>	<b>3.0000e-004</b>	<b>0.0330</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0706</b>	<b>0.0706</b>	<b>1.9000e-004</b>		<b>0.0752</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	lb/day										lb/day					
Architectural Coating	0.8190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.9008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0700e-003	3.0000e-004	0.0330	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0706	0.0706	1.9000e-004		0.0752
<b>Total</b>	<b>7.7229</b>	<b>3.0000e-004</b>	<b>0.0330</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0706</b>	<b>0.0706</b>	<b>1.9000e-004</b>		<b>0.0752</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators



NCPWF MR - San Diego County APCD Air District, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	8	50	1000	0.73	Diesel

**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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**10.1 Stationary Sources**

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	13.1285	58.7100	33.4750	0.0631		1.9313	1.9313		1.9313	1.9313		6,716.1130	6,716.1130	0.9416		6,739.6530
<b>Total</b>	<b>13.1285</b>	<b>58.7100</b>	<b>33.4750</b>	<b>0.0631</b>		<b>1.9313</b>	<b>1.9313</b>		<b>1.9313</b>	<b>1.9313</b>		<b>6,716.1130</b>	<b>6,716.1130</b>	<b>0.9416</b>		<b>6,739.6530</b>

**11.0 Vegetation**

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NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Annual

**NCPWF Pipeline-Open Trench**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	320.54	1000sqft	7.36	320,535.24	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

## NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Annual

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.





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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Subaqueous Pipeline
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Subaqueous Pipeline
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Subaqueous Pipeline
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Subaqueous Pipeline
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Trenching

## NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Annual

tblOffRoadEquipment	PhaseName		Tunneling
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	397.47	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,537.00
tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	74,124,875.00	0.00

## 2.0 Emissions Summary

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NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Annual

**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					
2018	0.0693	0.6169	0.4900	1.0200e-003	0.0302	0.0312	0.0613	6.7200e-003	0.0293	0.0361	0.0000	92.1053	92.1053	0.0206	0.0000	92.6191
2019	0.4878	4.2617	3.5616	7.6300e-003	0.0694	0.2085	0.2779	0.0175	0.1974	0.2149	0.0000	677.6122	677.6122	0.1532	0.0000	681.4413
2020	0.4091	3.7641	3.2287	5.9500e-003	0.0333	0.1956	0.2290	8.8500e-003	0.1838	0.1926	0.0000	517.3154	517.3154	0.1274	0.0000	520.5000
2021	0.2731	2.4184	2.4939	4.6700e-003	0.0273	0.1262	0.1535	7.2400e-003	0.1181	0.1253	0.0000	409.4421	409.4421	0.1068	0.0000	412.1115
<b>Maximum</b>	<b>0.4878</b>	<b>4.2617</b>	<b>3.5616</b>	<b>7.6300e-003</b>	<b>0.0694</b>	<b>0.2085</b>	<b>0.2779</b>	<b>0.0175</b>	<b>0.1974</b>	<b>0.2149</b>	<b>0.0000</b>	<b>677.6122</b>	<b>677.6122</b>	<b>0.1532</b>	<b>0.0000</b>	<b>681.4413</b>



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**2.1 Overall Construction**

**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					
2018	0.0250	0.4770	0.5513	1.0200e-003	0.0261	0.0229	0.0490	6.2100e-003	0.0229	0.0291	0.0000	92.1052	92.1052	0.0206	0.0000	92.6190
2019	0.1901	3.5757	4.2110	7.6300e-003	0.0653	0.1780	0.2432	0.0170	0.1779	0.1949	0.0000	677.6115	677.6115	0.1532	0.0000	681.4406
2020	0.1512	2.7734	3.8156	5.9500e-003	0.0333	0.1491	0.1824	8.8500e-003	0.1491	0.1579	0.0000	517.3148	517.3148	0.1274	0.0000	520.4994
2021	0.1151	2.1922	3.0019	4.6700e-003	0.0273	0.1227	0.1500	7.2400e-003	0.1227	0.1300	0.0000	409.4416	409.4416	0.1068	0.0000	412.1110
<b>Maximum</b>	<b>0.1901</b>	<b>3.5757</b>	<b>4.2110</b>	<b>7.6300e-003</b>	<b>0.0653</b>	<b>0.1780</b>	<b>0.2432</b>	<b>0.0170</b>	<b>0.1779</b>	<b>0.1949</b>	<b>0.0000</b>	<b>677.6115</b>	<b>677.6115</b>	<b>0.1532</b>	<b>0.0000</b>	<b>681.4406</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>61.16</b>	<b>18.47</b>	<b>-18.47</b>	<b>0.00</b>	<b>5.12</b>	<b>15.82</b>	<b>13.45</b>	<b>2.51</b>	<b>10.60</b>	<b>10.03</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-14-2018	2-13-2019	1.2602	0.9655
2	2-14-2019	5-13-2019	1.1486	0.9285
3	5-14-2019	8-13-2019	1.1860	0.9585
4	8-14-2019	11-13-2019	0.0902	0.0729
10	2-14-2021	5-13-2021	0.5469	0.4914
11	5-14-2021	8-13-2021	0.6985	0.6276
12	8-14-2021	9-30-2021	0.3644	0.3275
		<b>Highest</b>	1.2602	0.9655

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**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	2.8000e-004	3.0000e-005	2.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7300e-003	5.7300e-003	2.0000e-005	0.0000	6.1100e-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	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-004</b>	<b>3.0000e-005</b>	<b>2.9600e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.7300e-003</b>	<b>5.7300e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.1100e-003</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	1.2000e-004	2.0000e-005	1.7200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0900e-003	3.0900e-003	1.0000e-005	0.0000	3.2500e-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	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.2000e-004</b>	<b>2.0000e-005</b>	<b>1.7200e-003</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>3.0900e-003</b>	<b>3.0900e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.2500e-003</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	57.14	33.33	41.89	0.00	0.00	100.00	100.00	0.00	100.00	100.00	0.00	46.07	46.07	50.00	0.00	46.81

**3.0 Construction Detail**

**Construction Phase**

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Trenching	Trenching	11/14/2018	8/20/2019	5	200	
2	Tunneling	Trenching	8/21/2019	5/26/2020	5	200	
3	Subaqueous Pipeline	Trenching	5/27/2020	3/2/2021	5	200	
4	Paving	Paving	3/3/2021	12/7/2021	5	200	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trenching	Concrete/Industrial Saws	1	8.00	81	0.73
Trenching	Excavators	2	8.00	158	0.38
Trenching	Off-Highway Trucks	1	8.00	402	0.38
Trenching	Rollers	2	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Welders	2	8.00	46	0.45
Tunneling	Bore/Drill Rigs	1	8.00	221	0.50
Tunneling	Cranes	1	8.00	231	0.29
Tunneling	Crushing/Proc. Equipment	1	8.00	85	0.78
Tunneling	Generator Sets	1	8.00	84	0.74
Tunneling	Off-Highway Trucks	1	8.00	402	0.38
Tunneling	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Tunneling	Welders	2	8.00	46	0.45
Subaqueous Pipeline	Forklifts	1	8.00	89	0.20
Subaqueous Pipeline	Generator Sets	1	8.00	84	0.74
Subaqueous Pipeline	Other Construction Equipment	4	8.00	172	0.42
Subaqueous Pipeline	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Crushing/Proc. Equipment	1	8.00	85	0.78
Paving	Off-Highway Trucks	1	8.00	402	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**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
Trenching	10	26.00	0.00	2,537.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Tunneling	9	24.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Subaqueous Pipeline	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Trenching - 2018**

**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					7.4500e-003	0.0000	7.4500e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0646	0.5447	0.4546	7.9000e-004		0.0308	0.0308		0.0290	0.0290	0.0000	69.8588	69.8588	0.0189	0.0000	70.3299
<b>Total</b>	<b>0.0646</b>	<b>0.5447</b>	<b>0.4546</b>	<b>7.9000e-004</b>	<b>7.4500e-003</b>	<b>0.0308</b>	<b>0.0383</b>	<b>9.2000e-004</b>	<b>0.0290</b>	<b>0.0300</b>	<b>0.0000</b>	<b>69.8588</b>	<b>69.8588</b>	<b>0.0189</b>	<b>0.0000</b>	<b>70.3299</b>

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**3.2 Trenching - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-003	0.0700	0.0146	1.7000e-004	0.0172	2.7000e-004	0.0175	4.3400e-003	2.6000e-004	4.6000e-003	0.0000	16.9935	16.9935	1.5300e-003	0.0000	17.0319
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	2.6500e-003	2.2200e-003	0.0208	6.0000e-005	5.5100e-003	4.0000e-005	5.5500e-003	1.4600e-003	4.0000e-005	1.5000e-003	0.0000	5.2529	5.2529	1.8000e-004	0.0000	5.2573
<b>Total</b>	<b>4.6500e-003</b>	<b>0.0722</b>	<b>0.0354</b>	<b>2.3000e-004</b>	<b>0.0227</b>	<b>3.1000e-004</b>	<b>0.0231</b>	<b>5.8000e-003</b>	<b>3.0000e-004</b>	<b>6.1000e-003</b>	<b>0.0000</b>	<b>22.2465</b>	<b>22.2465</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>22.2892</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					3.3500e-003	0.0000	3.3500e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0203	0.4048	0.5159	7.9000e-004		0.0226	0.0226		0.0226	0.0226	0.0000	69.8587	69.8587	0.0189	0.0000	70.3298
<b>Total</b>	<b>0.0203</b>	<b>0.4048</b>	<b>0.5159</b>	<b>7.9000e-004</b>	<b>3.3500e-003</b>	<b>0.0226</b>	<b>0.0259</b>	<b>4.1000e-004</b>	<b>0.0226</b>	<b>0.0230</b>	<b>0.0000</b>	<b>69.8587</b>	<b>69.8587</b>	<b>0.0189</b>	<b>0.0000</b>	<b>70.3298</b>

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**3.2 Trenching - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-003	0.0700	0.0146	1.7000e-004	0.0172	2.7000e-004	0.0175	4.3400e-003	2.6000e-004	4.6000e-003	0.0000	16.9935	16.9935	1.5300e-003	0.0000	17.0319
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	2.6500e-003	2.2200e-003	0.0208	6.0000e-005	5.5100e-003	4.0000e-005	5.5500e-003	1.4600e-003	4.0000e-005	1.5000e-003	0.0000	5.2529	5.2529	1.8000e-004	0.0000	5.2573
<b>Total</b>	<b>4.6500e-003</b>	<b>0.0722</b>	<b>0.0354</b>	<b>2.3000e-004</b>	<b>0.0227</b>	<b>3.1000e-004</b>	<b>0.0231</b>	<b>5.8000e-003</b>	<b>3.0000e-004</b>	<b>6.1000e-003</b>	<b>0.0000</b>	<b>22.2465</b>	<b>22.2465</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>22.2892</b>

**3.2 Trenching - 2019**

**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					7.4500e-003	0.0000	7.4500e-003	9.2000e-004	0.0000	9.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2807	2.3694	2.1796	3.8500e-003		0.1291	0.1291		0.1216	0.1216	0.0000	336.7294	336.7294	0.0909	0.0000	339.0018
<b>Total</b>	<b>0.2807</b>	<b>2.3694</b>	<b>2.1796</b>	<b>3.8500e-003</b>	<b>7.4500e-003</b>	<b>0.1291</b>	<b>0.1366</b>	<b>9.2000e-004</b>	<b>0.1216</b>	<b>0.1226</b>	<b>0.0000</b>	<b>336.7294</b>	<b>336.7294</b>	<b>0.0909</b>	<b>0.0000</b>	<b>339.0018</b>



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**3.2 Trenching - 2019**

**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	9.2500e-003	0.3227	0.0704	8.3000e-004	0.0208	1.2100e-003	0.0220	5.6300e-003	1.1500e-003	6.7800e-003	0.0000	82.0800	82.0800	7.4300e-003	0.0000	82.2658
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	0.0119	9.6900e-003	0.0914	2.8000e-004	0.0269	1.9000e-004	0.0271	7.1500e-003	1.7000e-004	7.3200e-003	0.0000	24.8723	24.8723	7.7000e-004	0.0000	24.8917
<b>Total</b>	<b>0.0212</b>	<b>0.3323</b>	<b>0.1618</b>	<b>1.1100e-003</b>	<b>0.0477</b>	<b>1.4000e-003</b>	<b>0.0491</b>	<b>0.0128</b>	<b>1.3200e-003</b>	<b>0.0141</b>	<b>0.0000</b>	<b>106.9523</b>	<b>106.9523</b>	<b>8.2000e-003</b>	<b>0.0000</b>	<b>107.1574</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					3.3500e-003	0.0000	3.3500e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0992	1.9762	2.5186	3.8500e-003		0.1102	0.1102		0.1102	0.1102	0.0000	336.7290	336.7290	0.0909	0.0000	339.0014
<b>Total</b>	<b>0.0992</b>	<b>1.9762</b>	<b>2.5186</b>	<b>3.8500e-003</b>	<b>3.3500e-003</b>	<b>0.1102</b>	<b>0.1136</b>	<b>4.1000e-004</b>	<b>0.1102</b>	<b>0.1106</b>	<b>0.0000</b>	<b>336.7290</b>	<b>336.7290</b>	<b>0.0909</b>	<b>0.0000</b>	<b>339.0014</b>

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**3.2 Trenching - 2019**

**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	9.2500e-003	0.3227	0.0704	8.3000e-004	0.0208	1.2100e-003	0.0220	5.6300e-003	1.1500e-003	6.7800e-003	0.0000	82.0800	82.0800	7.4300e-003	0.0000	82.2658
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	0.0119	9.6900e-003	0.0914	2.8000e-004	0.0269	1.9000e-004	0.0271	7.1500e-003	1.7000e-004	7.3200e-003	0.0000	24.8723	24.8723	7.7000e-004	0.0000	24.8917
<b>Total</b>	<b>0.0212</b>	<b>0.3323</b>	<b>0.1618</b>	<b>1.1100e-003</b>	<b>0.0477</b>	<b>1.4000e-003</b>	<b>0.0491</b>	<b>0.0128</b>	<b>1.3200e-003</b>	<b>0.0141</b>	<b>0.0000</b>	<b>106.9523</b>	<b>106.9523</b>	<b>8.2000e-003</b>	<b>0.0000</b>	<b>107.1574</b>

**3.3 Tunneling - 2019**

**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	0.1796	1.5549	1.1719	2.5300e-003		0.0779	0.0779		0.0744	0.0744	0.0000	220.7913	220.7913	0.0537	0.0000	222.1326
<b>Total</b>	<b>0.1796</b>	<b>1.5549</b>	<b>1.1719</b>	<b>2.5300e-003</b>		<b>0.0779</b>	<b>0.0779</b>		<b>0.0744</b>	<b>0.0744</b>	<b>0.0000</b>	<b>220.7913</b>	<b>220.7913</b>	<b>0.0537</b>	<b>0.0000</b>	<b>222.1326</b>

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**3.3 Tunneling - 2019**

**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	6.3100e-003	5.1200e-003	0.0483	1.5000e-004	0.0142	1.0000e-004	0.0143	3.7800e-003	9.0000e-005	3.8700e-003	0.0000	13.1392	13.1392	4.1000e-004	0.0000	13.1494
<b>Total</b>	<b>6.3100e-003</b>	<b>5.1200e-003</b>	<b>0.0483</b>	<b>1.5000e-004</b>	<b>0.0142</b>	<b>1.0000e-004</b>	<b>0.0143</b>	<b>3.7800e-003</b>	<b>9.0000e-005</b>	<b>3.8700e-003</b>	<b>0.0000</b>	<b>13.1392</b>	<b>13.1392</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>13.1494</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	0.0634	1.2621	1.4822	2.5300e-003		0.0663	0.0663		0.0663	0.0663	0.0000	220.7911	220.7911	0.0537	0.0000	222.1324
<b>Total</b>	<b>0.0634</b>	<b>1.2621</b>	<b>1.4822</b>	<b>2.5300e-003</b>		<b>0.0663</b>	<b>0.0663</b>		<b>0.0663</b>	<b>0.0663</b>	<b>0.0000</b>	<b>220.7911</b>	<b>220.7911</b>	<b>0.0537</b>	<b>0.0000</b>	<b>222.1324</b>

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**3.3 Tunneling - 2019**

**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	6.3100e-003	5.1200e-003	0.0483	1.5000e-004	0.0142	1.0000e-004	0.0143	3.7800e-003	9.0000e-005	3.8700e-003	0.0000	13.1392	13.1392	4.1000e-004	0.0000	13.1494
<b>Total</b>	<b>6.3100e-003</b>	<b>5.1200e-003</b>	<b>0.0483</b>	<b>1.5000e-004</b>	<b>0.0142</b>	<b>1.0000e-004</b>	<b>0.0143</b>	<b>3.7800e-003</b>	<b>9.0000e-005</b>	<b>3.8700e-003</b>	<b>0.0000</b>	<b>13.1392</b>	<b>13.1392</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>13.1494</b>

**3.3 Tunneling - 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					
Off-Road	0.1811	1.5680	1.2683	2.8000e-003		0.0751	0.0751		0.0717	0.0717	0.0000	240.5781	240.5781	0.0585	0.0000	242.0410
<b>Total</b>	<b>0.1811</b>	<b>1.5680</b>	<b>1.2683</b>	<b>2.8000e-003</b>		<b>0.0751</b>	<b>0.0751</b>		<b>0.0717</b>	<b>0.0717</b>	<b>0.0000</b>	<b>240.5781</b>	<b>240.5781</b>	<b>0.0585</b>	<b>0.0000</b>	<b>242.0410</b>

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**3.3 Tunneling - 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	6.5300e-003	5.1100e-003	0.0489	1.6000e-004	0.0157	1.1000e-004	0.0158	4.1700e-003	1.0000e-004	4.2700e-003	0.0000	14.0635	14.0635	4.1000e-004	0.0000	14.0738
<b>Total</b>	<b>6.5300e-003</b>	<b>5.1100e-003</b>	<b>0.0489</b>	<b>1.6000e-004</b>	<b>0.0157</b>	<b>1.1000e-004</b>	<b>0.0158</b>	<b>4.1700e-003</b>	<b>1.0000e-004</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>14.0635</b>	<b>14.0635</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>14.0738</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	0.0701	1.3950	1.6383	2.8000e-003		0.0732	0.0732		0.0732	0.0732	0.0000	240.5778	240.5778	0.0585	0.0000	242.0407
<b>Total</b>	<b>0.0701</b>	<b>1.3950</b>	<b>1.6383</b>	<b>2.8000e-003</b>		<b>0.0732</b>	<b>0.0732</b>		<b>0.0732</b>	<b>0.0732</b>	<b>0.0000</b>	<b>240.5778</b>	<b>240.5778</b>	<b>0.0585</b>	<b>0.0000</b>	<b>242.0407</b>

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**3.3 Tunneling - 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	6.5300e-003	5.1100e-003	0.0489	1.6000e-004	0.0157	1.1000e-004	0.0158	4.1700e-003	1.0000e-004	4.2700e-003	0.0000	14.0635	14.0635	4.1000e-004	0.0000	14.0738
<b>Total</b>	<b>6.5300e-003</b>	<b>5.1100e-003</b>	<b>0.0489</b>	<b>1.6000e-004</b>	<b>0.0157</b>	<b>1.1000e-004</b>	<b>0.0158</b>	<b>4.1700e-003</b>	<b>1.0000e-004</b>	<b>4.2700e-003</b>	<b>0.0000</b>	<b>14.0635</b>	<b>14.0635</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>14.0738</b>

**3.4 Subaqueous Pipeline - 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					
Off-Road	0.2142	2.1853	1.8568	2.8200e-003		0.1203	0.1203		0.1119	0.1119	0.0000	246.9025	246.9025	0.0680	0.0000	248.6026
<b>Total</b>	<b>0.2142</b>	<b>2.1853</b>	<b>1.8568</b>	<b>2.8200e-003</b>		<b>0.1203</b>	<b>0.1203</b>		<b>0.1119</b>	<b>0.1119</b>	<b>0.0000</b>	<b>246.9025</b>	<b>246.9025</b>	<b>0.0680</b>	<b>0.0000</b>	<b>248.6026</b>

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**3.4 Subaqueous Pipeline - 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	7.3200e-003	5.7300e-003	0.0548	1.7000e-004	0.0176	1.2000e-004	0.0177	4.6800e-003	1.1000e-004	4.7900e-003	0.0000	15.7713	15.7713	4.6000e-004	0.0000	15.7827
<b>Total</b>	<b>7.3200e-003</b>	<b>5.7300e-003</b>	<b>0.0548</b>	<b>1.7000e-004</b>	<b>0.0176</b>	<b>1.2000e-004</b>	<b>0.0177</b>	<b>4.6800e-003</b>	<b>1.1000e-004</b>	<b>4.7900e-003</b>	<b>0.0000</b>	<b>15.7713</b>	<b>15.7713</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>15.7827</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	0.0673	1.3676	2.0737	2.8200e-003		0.0756	0.0756		0.0756	0.0756	0.0000	246.9022	246.9022	0.0680	0.0000	248.6023
<b>Total</b>	<b>0.0673</b>	<b>1.3676</b>	<b>2.0737</b>	<b>2.8200e-003</b>		<b>0.0756</b>	<b>0.0756</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>246.9022</b>	<b>246.9022</b>	<b>0.0680</b>	<b>0.0000</b>	<b>248.6023</b>

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**3.4 Subaqueous Pipeline - 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	7.3200e-003	5.7300e-003	0.0548	1.7000e-004	0.0176	1.2000e-004	0.0177	4.6800e-003	1.1000e-004	4.7900e-003	0.0000	15.7713	15.7713	4.6000e-004	0.0000	15.7827
<b>Total</b>	<b>7.3200e-003</b>	<b>5.7300e-003</b>	<b>0.0548</b>	<b>1.7000e-004</b>	<b>0.0176</b>	<b>1.2000e-004</b>	<b>0.0177</b>	<b>4.6800e-003</b>	<b>1.1000e-004</b>	<b>4.7900e-003</b>	<b>0.0000</b>	<b>15.7713</b>	<b>15.7713</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>15.7827</b>

**3.4 Subaqueous Pipeline - 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	0.0506	0.5109	0.5017	7.7000e-004		0.0275	0.0275		0.0256	0.0256	0.0000	67.6037	67.6037	0.0186	0.0000	68.0676
<b>Total</b>	<b>0.0506</b>	<b>0.5109</b>	<b>0.5017</b>	<b>7.7000e-004</b>		<b>0.0275</b>	<b>0.0275</b>		<b>0.0256</b>	<b>0.0256</b>	<b>0.0000</b>	<b>67.6037</b>	<b>67.6037</b>	<b>0.0186</b>	<b>0.0000</b>	<b>68.0676</b>



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**3.4 Subaqueous Pipeline - 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	1.8900e-003	1.4300e-003	0.0140	5.0000e-005	4.8300e-003	3.0000e-005	4.8600e-003	1.2800e-003	3.0000e-005	1.3100e-003	0.0000	4.1743	4.1743	1.2000e-004	0.0000	4.1772
<b>Total</b>	<b>1.8900e-003</b>	<b>1.4300e-003</b>	<b>0.0140</b>	<b>5.0000e-005</b>	<b>4.8300e-003</b>	<b>3.0000e-005</b>	<b>4.8600e-003</b>	<b>1.2800e-003</b>	<b>3.0000e-005</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.1743</b>	<b>4.1743</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.1772</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	0.0184	0.3746	0.5680	7.7000e-004		0.0207	0.0207		0.0207	0.0207	0.0000	67.6037	67.6037	0.0186	0.0000	68.0675
<b>Total</b>	<b>0.0184</b>	<b>0.3746</b>	<b>0.5680</b>	<b>7.7000e-004</b>		<b>0.0207</b>	<b>0.0207</b>		<b>0.0207</b>	<b>0.0207</b>	<b>0.0000</b>	<b>67.6037</b>	<b>67.6037</b>	<b>0.0186</b>	<b>0.0000</b>	<b>68.0675</b>

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**3.4 Subaqueous Pipeline - 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	1.8900e-003	1.4300e-003	0.0140	5.0000e-005	4.8300e-003	3.0000e-005	4.8600e-003	1.2800e-003	3.0000e-005	1.3100e-003	0.0000	4.1743	4.1743	1.2000e-004	0.0000	4.1772
<b>Total</b>	<b>1.8900e-003</b>	<b>1.4300e-003</b>	<b>0.0140</b>	<b>5.0000e-005</b>	<b>4.8300e-003</b>	<b>3.0000e-005</b>	<b>4.8600e-003</b>	<b>1.2800e-003</b>	<b>3.0000e-005</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.1743</b>	<b>4.1743</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.1772</b>

**3.5 Paving - 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	0.2118	1.8994	1.9130	3.6400e-003		0.0985	0.0985		0.0923	0.0923	0.0000	318.2487	318.2487	0.0876	0.0000	320.4379
Paving	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>0.2118</b>	<b>1.8994</b>	<b>1.9130</b>	<b>3.6400e-003</b>		<b>0.0985</b>	<b>0.0985</b>		<b>0.0923</b>	<b>0.0923</b>	<b>0.0000</b>	<b>318.2487</b>	<b>318.2487</b>	<b>0.0876</b>	<b>0.0000</b>	<b>320.4379</b>

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**3.5 Paving - 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	8.8100e-003	6.6400e-003	0.0653	2.1000e-004	0.0224	1.5000e-004	0.0226	5.9600e-003	1.4000e-004	6.1000e-003	0.0000	19.4153	19.4153	5.4000e-004	0.0000	19.4288
<b>Total</b>	<b>8.8100e-003</b>	<b>6.6400e-003</b>	<b>0.0653</b>	<b>2.1000e-004</b>	<b>0.0224</b>	<b>1.5000e-004</b>	<b>0.0226</b>	<b>5.9600e-003</b>	<b>1.4000e-004</b>	<b>6.1000e-003</b>	<b>0.0000</b>	<b>19.4153</b>	<b>19.4153</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>19.4288</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	0.0860	1.8096	2.3546	3.6400e-003		0.1018	0.1018		0.1018	0.1018	0.0000	318.2484	318.2484	0.0876	0.0000	320.4376
Paving	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>0.0860</b>	<b>1.8096</b>	<b>2.3546</b>	<b>3.6400e-003</b>		<b>0.1018</b>	<b>0.1018</b>		<b>0.1018</b>	<b>0.1018</b>	<b>0.0000</b>	<b>318.2484</b>	<b>318.2484</b>	<b>0.0876</b>	<b>0.0000</b>	<b>320.4376</b>

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**3.5 Paving - 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	8.8100e-003	6.6400e-003	0.0653	2.1000e-004	0.0224	1.5000e-004	0.0226	5.9600e-003	1.4000e-004	6.1000e-003	0.0000	19.4153	19.4153	5.4000e-004	0.0000	19.4288
<b>Total</b>	<b>8.8100e-003</b>	<b>6.6400e-003</b>	<b>0.0653</b>	<b>2.1000e-004</b>	<b>0.0224</b>	<b>1.5000e-004</b>	<b>0.0226</b>	<b>5.9600e-003</b>	<b>1.4000e-004</b>	<b>6.1000e-003</b>	<b>0.0000</b>	<b>19.4153</b>	<b>19.4153</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>19.4288</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N



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**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr					
General Light Industry	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	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>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

No Hearths Installed

Use Low VOC Cleaning Supplies



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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	1.2000e-004	2.0000e-005	1.7200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0900e-003	3.0900e-003	1.0000e-005	0.0000	3.2500e-003
Unmitigated	2.8000e-004	3.0000e-005	2.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7300e-003	5.7300e-003	2.0000e-005	0.0000	6.1100e-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
Landscaping	2.8000e-004	3.0000e-005	2.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7300e-003	5.7300e-003	2.0000e-005	0.0000	6.1100e-003
<b>Total</b>	<b>2.8000e-004</b>	<b>3.0000e-005</b>	<b>2.9600e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.7300e-003</b>	<b>5.7300e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.1100e-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
Landscaping	1.2000e-004	2.0000e-005	1.7200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0900e-003	3.0900e-003	1.0000e-005	0.0000	3.2500e-003
<b>Total</b>	<b>1.2000e-004</b>	<b>2.0000e-005</b>	<b>1.7200e-003</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>3.0900e-003</b>	<b>3.0900e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.2500e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	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

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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	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>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	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**

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**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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	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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**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	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**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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**11.0 Vegetation**

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NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**NCPWF Pipeline-Open Trench**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	320.54	1000sqft	7.36	320,535.24	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

## NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.







NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Subaqueous Pipeline
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Subaqueous Pipeline
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Subaqueous Pipeline
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Subaqueous Pipeline
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Trenching

## NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

tblOffRoadEquipment	PhaseName		Tunneling
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	397.47	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,537.00
tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	74,124,875.00	0.00

## 2.0 Emissions Summary

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NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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					
2018	4.0717	36.1949	28.8800	0.0602	1.4470	1.8322	3.2792	0.3590	1.7257	2.0847	0.0000	5,998.7476	5,998.7476	1.3317	0.0000	6,032.0413
2019	3.9106	32.8313	28.2650	0.0599	0.6626	1.6420	2.2348	0.1665	1.5672	1.6485	0.0000	5,918.4229	5,918.4229	1.3152	0.0000	5,951.3025
2020	3.5714	29.9554	25.1583	0.0564	0.3066	1.5333	1.7633	0.0813	1.4264	1.4874	0.0000	5,362.8238	5,362.8238	1.2376	0.0000	5,393.7649
2021	2.4399	23.8250	24.0367	0.0387	0.2299	1.2811	1.5110	0.0610	1.1921	1.2530	0.0000	3,733.8994	3,733.8994	0.9716	0.0000	3,758.1882
<b>Maximum</b>	<b>4.0717</b>	<b>36.1949</b>	<b>28.8800</b>	<b>0.0602</b>	<b>1.4470</b>	<b>1.8322</b>	<b>3.2792</b>	<b>0.3590</b>	<b>1.7257</b>	<b>2.0847</b>	<b>0.0000</b>	<b>5,998.7476</b>	<b>5,998.7476</b>	<b>1.3317</b>	<b>0.0000</b>	<b>6,032.0413</b>



NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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	3.1000e-003	3.0000e-004	0.0329	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0702	0.0702	1.9000e-004		0.0749
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>3.1000e-003</b>	<b>3.0000e-004</b>	<b>0.0329</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0702</b>	<b>0.0702</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.0749</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	1.3100e-003	1.7000e-004	0.0191	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0378	0.0378	8.0000e-005		0.0398
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>1.3100e-003</b>	<b>1.7000e-004</b>	<b>0.0191</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0378</b>	<b>0.0378</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.0398</b>

## NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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	57.74	43.33	42.08	0.00	0.00	58.33	58.33	0.00	58.33	58.33	0.00	46.10	46.10	57.89	0.00	46.83

### 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	Trenching	Trenching	11/14/2018	8/20/2019	5	200	
2	Tunneling	Trenching	8/21/2019	5/26/2020	5	200	
3	Subaqueous Pipeline	Trenching	5/27/2020	3/2/2021	5	200	
4	Paving	Paving	3/3/2021	12/7/2021	5	200	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment



NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trenching	Concrete/Industrial Saws	1	8.00	81	0.73
Trenching	Excavators	2	8.00	158	0.38
Trenching	Off-Highway Trucks	1	8.00	402	0.38
Trenching	Rollers	2	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Welders	2	8.00	46	0.45
Tunneling	Bore/Drill Rigs	1	8.00	221	0.50
Tunneling	Cranes	1	8.00	231	0.29
Tunneling	Crushing/Proc. Equipment	1	8.00	85	0.78
Tunneling	Generator Sets	1	8.00	84	0.74
Tunneling	Off-Highway Trucks	1	8.00	402	0.38
Tunneling	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Tunneling	Welders	2	8.00	46	0.45
Subaqueous Pipeline	Forklifts	1	8.00	89	0.20
Subaqueous Pipeline	Generator Sets	1	8.00	84	0.74
Subaqueous Pipeline	Other Construction Equipment	4	8.00	172	0.42
Subaqueous Pipeline	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Crushing/Proc. Equipment	1	8.00	85	0.78
Paving	Off-Highway Trucks	1	8.00	402	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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
Trenching	10	26.00	0.00	2,537.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Tunneling	9	24.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Subaqueous Pipeline	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Trenching - 2018**

**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					0.0745	0.0000	0.0745	9.2000e-003	0.0000	9.2000e-003			0.0000			0.0000
Off-Road	3.8025	32.0419	26.7394	0.0464		1.8140	1.8140		1.7084	1.7084		4,529.7709	4,529.7709	1.2220		4,560.3202
<b>Total</b>	<b>3.8025</b>	<b>32.0419</b>	<b>26.7394</b>	<b>0.0464</b>	<b>0.0745</b>	<b>1.8140</b>	<b>1.8885</b>	<b>9.2000e-003</b>	<b>1.7084</b>	<b>1.7176</b>		<b>4,529.7709</b>	<b>4,529.7709</b>	<b>1.2220</b>		<b>4,560.3202</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.2 Trenching - 2018**

**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	0.1161	4.0348	0.8321	0.0102	1.0405	0.0159	1.0564	0.2617	0.0152	0.2769		1,109.626 1	1,109.626 1	0.0978		1,112.0715
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	0.1531	0.1182	1.3084	3.6100e-003	0.3321	2.3000e-003	0.3344	0.0881	2.1200e-003	0.0902		359.3505	359.3505	0.0120		359.6496
<b>Total</b>	<b>0.2692</b>	<b>4.1530</b>	<b>2.1406</b>	<b>0.0138</b>	<b>1.3726</b>	<b>0.0182</b>	<b>1.3908</b>	<b>0.3498</b>	<b>0.0173</b>	<b>0.3671</b>		<b>1,468.976 7</b>	<b>1,468.976 7</b>	<b>0.1098</b>		<b>1,471.721 1</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					0.0335	0.0000	0.0335	4.1400e-003	0.0000	4.1400e-003			0.0000			0.0000
Off-Road	1.1949	23.8092	30.3451	0.0464		1.3279	1.3279		1.3279	1.3279	0.0000	4,529.770 9	4,529.770 9	1.2220		4,560.320 2
<b>Total</b>	<b>1.1949</b>	<b>23.8092</b>	<b>30.3451</b>	<b>0.0464</b>	<b>0.0335</b>	<b>1.3279</b>	<b>1.3614</b>	<b>4.1400e-003</b>	<b>1.3279</b>	<b>1.3321</b>	<b>0.0000</b>	<b>4,529.770 9</b>	<b>4,529.770 9</b>	<b>1.2220</b>		<b>4,560.320 2</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.2 Trenching - 2018**

**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	0.1161	4.0348	0.8321	0.0102	1.0405	0.0159	1.0564	0.2617	0.0152	0.2769		1,109.626 1	1,109.626 1	0.0978		1,112.0715
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	0.1531	0.1182	1.3084	3.6100e-003	0.3321	2.3000e-003	0.3344	0.0881	2.1200e-003	0.0902		359.3505	359.3505	0.0120		359.6496
<b>Total</b>	<b>0.2692</b>	<b>4.1530</b>	<b>2.1406</b>	<b>0.0138</b>	<b>1.3726</b>	<b>0.0182</b>	<b>1.3908</b>	<b>0.3498</b>	<b>0.0173</b>	<b>0.3671</b>		<b>1,468.976 7</b>	<b>1,468.976 7</b>	<b>0.1098</b>		<b>1,471.721 1</b>

**3.2 Trenching - 2019**

**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					0.0745	0.0000	0.0745	9.2000e-003	0.0000	9.2000e-003			0.0000			0.0000
Off-Road	3.3824	28.5469	26.2597	0.0464		1.5556	1.5556		1.4655	1.4655		4,472.055 1	4,472.055 1	1.2072		4,502.234 8
<b>Total</b>	<b>3.3824</b>	<b>28.5469</b>	<b>26.2597</b>	<b>0.0464</b>	<b>0.0745</b>	<b>1.5556</b>	<b>1.6301</b>	<b>9.2000e-003</b>	<b>1.4655</b>	<b>1.4747</b>		<b>4,472.055 1</b>	<b>4,472.055 1</b>	<b>1.2072</b>		<b>4,502.234 8</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.2 Trenching - 2019**

**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	0.1101	3.8102	0.8225	0.0101	0.2560	0.0144	0.2704	0.0692	0.0138	0.0829		1,097.8521	1,097.8521	0.0972		1,100.2810
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	0.1413	0.1058	1.1828	3.5000e-003	0.3321	2.2800e-003	0.3344	0.0881	2.1000e-003	0.0902		348.5157	348.5157	0.0108		348.7866
<b>Total</b>	<b>0.2514</b>	<b>3.9160</b>	<b>2.0053</b>	<b>0.0136</b>	<b>0.5881</b>	<b>0.0167</b>	<b>0.6048</b>	<b>0.1573</b>	<b>0.0159</b>	<b>0.1731</b>		<b>1,446.3679</b>	<b>1,446.3679</b>	<b>0.1080</b>		<b>1,449.0677</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					0.0335	0.0000	0.0335	4.1400e-003	0.0000	4.1400e-003			0.0000			0.0000
Off-Road	1.1949	23.8092	30.3451	0.0464		1.3279	1.3279		1.3279	1.3279	0.0000	4,472.0551	4,472.0551	1.2072		4,502.2348
<b>Total</b>	<b>1.1949</b>	<b>23.8092</b>	<b>30.3451</b>	<b>0.0464</b>	<b>0.0335</b>	<b>1.3279</b>	<b>1.3614</b>	<b>4.1400e-003</b>	<b>1.3279</b>	<b>1.3321</b>	<b>0.0000</b>	<b>4,472.0551</b>	<b>4,472.0551</b>	<b>1.2072</b>		<b>4,502.2348</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.2 Trenching - 2019**

**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	0.1101	3.8102	0.8225	0.0101	0.2560	0.0144	0.2704	0.0692	0.0138	0.0829		1,097.8521	1,097.8521	0.0972		1,100.2810
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	0.1413	0.1058	1.1828	3.5000e-003	0.3321	2.2800e-003	0.3344	0.0881	2.1000e-003	0.0902		348.5157	348.5157	0.0108		348.7866
<b>Total</b>	<b>0.2514</b>	<b>3.9160</b>	<b>2.0053</b>	<b>0.0136</b>	<b>0.5881</b>	<b>0.0167</b>	<b>0.6048</b>	<b>0.1573</b>	<b>0.0159</b>	<b>0.1731</b>		<b>1,446.3679</b>	<b>1,446.3679</b>	<b>0.1080</b>		<b>1,449.0677</b>

**3.3 Tunneling - 2019**

**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	3.7802	32.7336	24.6717	0.0533		1.6399	1.6399		1.5652	1.5652		5,123.8059	5,123.8059	1.2451		5,154.9329
<b>Total</b>	<b>3.7802</b>	<b>32.7336</b>	<b>24.6717</b>	<b>0.0533</b>		<b>1.6399</b>	<b>1.6399</b>		<b>1.5652</b>	<b>1.5652</b>		<b>5,123.8059</b>	<b>5,123.8059</b>	<b>1.2451</b>		<b>5,154.9329</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.3 Tunneling - 2019**

**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	0.1305	0.0976	1.0918	3.2300e-003	0.3066	2.1000e-003	0.3087	0.0813	1.9400e-003	0.0832		321.7068	321.7068	0.0100		321.9569
<b>Total</b>	<b>0.1305</b>	<b>0.0976</b>	<b>1.0918</b>	<b>3.2300e-003</b>	<b>0.3066</b>	<b>2.1000e-003</b>	<b>0.3087</b>	<b>0.0813</b>	<b>1.9400e-003</b>	<b>0.0832</b>		<b>321.7068</b>	<b>321.7068</b>	<b>0.0100</b>		<b>321.9569</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	1.3345	26.5705	31.2047	0.0533		1.3951	1.3951		1.3951	1.3951	0.0000	5,123.8059	5,123.8059	1.2451		5,154.9329
<b>Total</b>	<b>1.3345</b>	<b>26.5705</b>	<b>31.2047</b>	<b>0.0533</b>		<b>1.3951</b>	<b>1.3951</b>		<b>1.3951</b>	<b>1.3951</b>	<b>0.0000</b>	<b>5,123.8059</b>	<b>5,123.8059</b>	<b>1.2451</b>		<b>5,154.9329</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.3 Tunneling - 2019**

**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	0.1305	0.0976	1.0918	3.2300e-003	0.3066	2.1000e-003	0.3087	0.0813	1.9400e-003	0.0832		321.7068	321.7068	0.0100		321.9569
<b>Total</b>	<b>0.1305</b>	<b>0.0976</b>	<b>1.0918</b>	<b>3.2300e-003</b>	<b>0.3066</b>	<b>2.1000e-003</b>	<b>0.3087</b>	<b>0.0813</b>	<b>1.9400e-003</b>	<b>0.0832</b>		<b>321.7068</b>	<b>321.7068</b>	<b>0.0100</b>		<b>321.9569</b>

**3.3 Tunneling - 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					
Off-Road	3.4493	29.8672	24.1574	0.0533		1.4313	1.4313		1.3656	1.3656		5,051.2757	5,051.2757	1.2286		5,081.9903
<b>Total</b>	<b>3.4493</b>	<b>29.8672</b>	<b>24.1574</b>	<b>0.0533</b>		<b>1.4313</b>	<b>1.4313</b>		<b>1.3656</b>	<b>1.3656</b>		<b>5,051.2757</b>	<b>5,051.2757</b>	<b>1.2286</b>		<b>5,081.9903</b>



NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.3 Tunneling - 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	0.1221	0.0882	1.0009	3.1300e-003	0.3066	2.0700e-003	0.3086	0.0813	1.9100e-003	0.0832		311.5481	311.5481	9.0600e-003		311.7747
<b>Total</b>	<b>0.1221</b>	<b>0.0882</b>	<b>1.0009</b>	<b>3.1300e-003</b>	<b>0.3066</b>	<b>2.0700e-003</b>	<b>0.3086</b>	<b>0.0813</b>	<b>1.9100e-003</b>	<b>0.0832</b>		<b>311.5481</b>	<b>311.5481</b>	<b>9.0600e-003</b>		<b>311.7747</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	1.3345	26.5705	31.2047	0.0533		1.3951	1.3951		1.3951	1.3951	0.0000	5,051.2757	5,051.2757	1.2286		5,081.9903
<b>Total</b>	<b>1.3345</b>	<b>26.5705</b>	<b>31.2047</b>	<b>0.0533</b>		<b>1.3951</b>	<b>1.3951</b>		<b>1.3951</b>	<b>1.3951</b>	<b>0.0000</b>	<b>5,051.2757</b>	<b>5,051.2757</b>	<b>1.2286</b>		<b>5,081.9903</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.3 Tunneling - 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	0.1221	0.0882	1.0009	3.1300e-003	0.3066	2.0700e-003	0.3086	0.0813	1.9100e-003	0.0832		311.5481	311.5481	9.0600e-003		311.7747
<b>Total</b>	<b>0.1221</b>	<b>0.0882</b>	<b>1.0009</b>	<b>3.1300e-003</b>	<b>0.3066</b>	<b>2.0700e-003</b>	<b>0.3086</b>	<b>0.0813</b>	<b>1.9100e-003</b>	<b>0.0832</b>		<b>311.5481</b>	<b>311.5481</b>	<b>9.0600e-003</b>		<b>311.7747</b>

**3.4 Subaqueous Pipeline - 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					
Off-Road	2.7286	27.8377	23.6538	0.0359		1.5318	1.5318		1.4250	1.4250		3,467.0503	3,467.0503	0.9549		3,490.9226
<b>Total</b>	<b>2.7286</b>	<b>27.8377</b>	<b>23.6538</b>	<b>0.0359</b>		<b>1.5318</b>	<b>1.5318</b>		<b>1.4250</b>	<b>1.4250</b>		<b>3,467.0503</b>	<b>3,467.0503</b>	<b>0.9549</b>		<b>3,490.9226</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.4 Subaqueous Pipeline - 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	0.0916	0.0661	0.7507	2.3400e-003	0.2299	1.5500e-003	0.2315	0.0610	1.4300e-003	0.0624		233.6611	233.6611	6.8000e-003		233.8310
<b>Total</b>	<b>0.0916</b>	<b>0.0661</b>	<b>0.7507</b>	<b>2.3400e-003</b>	<b>0.2299</b>	<b>1.5500e-003</b>	<b>0.2315</b>	<b>0.0610</b>	<b>1.4300e-003</b>	<b>0.0624</b>		<b>233.6611</b>	<b>233.6611</b>	<b>6.8000e-003</b>		<b>233.8310</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	0.8568	17.4221	26.4166	0.0359		0.9631	0.9631		0.9631	0.9631	0.0000	3,467.0503	3,467.0503	0.9549		3,490.9226
<b>Total</b>	<b>0.8568</b>	<b>17.4221</b>	<b>26.4166</b>	<b>0.0359</b>		<b>0.9631</b>	<b>0.9631</b>		<b>0.9631</b>	<b>0.9631</b>	<b>0.0000</b>	<b>3,467.0503</b>	<b>3,467.0503</b>	<b>0.9549</b>		<b>3,490.9226</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.4 Subaqueous Pipeline - 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	0.0916	0.0661	0.7507	2.3400e-003	0.2299	1.5500e-003	0.2315	0.0610	1.4300e-003	0.0624		233.6611	233.6611	6.8000e-003		233.8310
<b>Total</b>	<b>0.0916</b>	<b>0.0661</b>	<b>0.7507</b>	<b>2.3400e-003</b>	<b>0.2299</b>	<b>1.5500e-003</b>	<b>0.2315</b>	<b>0.0610</b>	<b>1.4300e-003</b>	<b>0.0624</b>		<b>233.6611</b>	<b>233.6611</b>	<b>6.8000e-003</b>		<b>233.8310</b>

**3.4 Subaqueous Pipeline - 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	2.3535	23.7648	23.3333	0.0359		1.2796	1.2796		1.1906	1.1906		3,466.0633	3,466.0633	0.9513		3,489.8454
<b>Total</b>	<b>2.3535</b>	<b>23.7648</b>	<b>23.3333</b>	<b>0.0359</b>		<b>1.2796</b>	<b>1.2796</b>		<b>1.1906</b>	<b>1.1906</b>		<b>3,466.0633</b>	<b>3,466.0633</b>	<b>0.9513</b>		<b>3,489.8454</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.4 Subaqueous Pipeline - 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	0.0864	0.0602	0.7034	2.2700e-003	0.2299	1.5300e-003	0.2314	0.0610	1.4100e-003	0.0624		225.8075	225.8075	6.2800e-003		225.9646
<b>Total</b>	<b>0.0864</b>	<b>0.0602</b>	<b>0.7034</b>	<b>2.2700e-003</b>	<b>0.2299</b>	<b>1.5300e-003</b>	<b>0.2314</b>	<b>0.0610</b>	<b>1.4100e-003</b>	<b>0.0624</b>		<b>225.8075</b>	<b>225.8075</b>	<b>6.2800e-003</b>		<b>225.9646</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	0.8568	17.4221	26.4166	0.0359		0.9631	0.9631		0.9631	0.9631	0.0000	3,466.0633	3,466.0633	0.9513		3,489.8454
<b>Total</b>	<b>0.8568</b>	<b>17.4221</b>	<b>26.4166</b>	<b>0.0359</b>		<b>0.9631</b>	<b>0.9631</b>		<b>0.9631</b>	<b>0.9631</b>	<b>0.0000</b>	<b>3,466.0633</b>	<b>3,466.0633</b>	<b>0.9513</b>		<b>3,489.8454</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.4 Subaqueous Pipeline - 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	0.0864	0.0602	0.7034	2.2700e-003	0.2299	1.5300e-003	0.2314	0.0610	1.4100e-003	0.0624		225.8075	225.8075	6.2800e-003		225.9646
<b>Total</b>	<b>0.0864</b>	<b>0.0602</b>	<b>0.7034</b>	<b>2.2700e-003</b>	<b>0.2299</b>	<b>1.5300e-003</b>	<b>0.2314</b>	<b>0.0610</b>	<b>1.4100e-003</b>	<b>0.0624</b>		<b>225.8075</b>	<b>225.8075</b>	<b>6.2800e-003</b>		<b>225.9646</b>

**3.5 Paving - 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	2.1179	18.9936	19.1299	0.0364		0.9854	0.9854		0.9233	0.9233		3,508.0919	3,508.0919	0.9653		3,532.2236
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1179</b>	<b>18.9936</b>	<b>19.1299</b>	<b>0.0364</b>		<b>0.9854</b>	<b>0.9854</b>		<b>0.9233</b>	<b>0.9233</b>		<b>3,508.0919</b>	<b>3,508.0919</b>	<b>0.9653</b>		<b>3,532.2236</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.5 Paving - 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	0.0864	0.0602	0.7034	2.2700e-003	0.2299	1.5300e-003	0.2314	0.0610	1.4100e-003	0.0624		225.8075	225.8075	6.2800e-003		225.9646
<b>Total</b>	<b>0.0864</b>	<b>0.0602</b>	<b>0.7034</b>	<b>2.2700e-003</b>	<b>0.2299</b>	<b>1.5300e-003</b>	<b>0.2314</b>	<b>0.0610</b>	<b>1.4100e-003</b>	<b>0.0624</b>		<b>225.8075</b>	<b>225.8075</b>	<b>6.2800e-003</b>		<b>225.9646</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	0.8598	18.0957	23.5463	0.0364		1.0184	1.0184		1.0184	1.0184	0.0000	3,508.0919	3,508.0919	0.9653		3,532.2236
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8598</b>	<b>18.0957</b>	<b>23.5463</b>	<b>0.0364</b>		<b>1.0184</b>	<b>1.0184</b>		<b>1.0184</b>	<b>1.0184</b>	<b>0.0000</b>	<b>3,508.0919</b>	<b>3,508.0919</b>	<b>0.9653</b>		<b>3,532.2236</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**3.5 Paving - 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	0.0864	0.0602	0.7034	2.2700e-003	0.2299	1.5300e-003	0.2314	0.0610	1.4100e-003	0.0624		225.8075	225.8075	6.2800e-003		225.9646
<b>Total</b>	<b>0.0864</b>	<b>0.0602</b>	<b>0.7034</b>	<b>2.2700e-003</b>	<b>0.2299</b>	<b>1.5300e-003</b>	<b>0.2314</b>	<b>0.0610</b>	<b>1.4100e-003</b>	<b>0.0624</b>		<b>225.8075</b>	<b>225.8075</b>	<b>6.2800e-003</b>		<b>225.9646</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**5.2 Energy by Land Use - Natural Gas**

**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					
General Light Industry	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**

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- No Hearths Installed
- Use Low VOC Cleaning Supplies

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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	1.3100e-003	1.7000e-004	0.0191	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0378	0.0378	8.0000e-005		0.0398
Unmitigated	3.1000e-003	3.0000e-004	0.0329	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0702	0.0702	1.9000e-004		0.0749

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
Landscaping	3.1000e-003	3.0000e-004	0.0329	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0702	0.0702	1.9000e-004		0.0749
<b>Total</b>	<b>3.1000e-003</b>	<b>3.0000e-004</b>	<b>0.0329</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0702</b>	<b>0.0702</b>	<b>1.9000e-004</b>		<b>0.0749</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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
Landscaping	1.3100e-003	1.7000e-004	0.0191	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0378	0.0378	8.0000e-005		0.0398
<b>Total</b>	<b>1.3100e-003</b>	<b>1.7000e-004</b>	<b>0.0191</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0378</b>	<b>0.0378</b>	<b>8.0000e-005</b>		<b>0.0398</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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Summer

**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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NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**NCPWF Pipeline-Open Trench**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	320.54	1000sqft	7.36	320,535.24	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

## NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.







NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Subaqueous Pipeline
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Subaqueous Pipeline
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Subaqueous Pipeline
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Tunneling
tblOffRoadEquipment	PhaseName		Subaqueous Pipeline
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Trenching

## NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

tblOffRoadEquipment	PhaseName		Tunneling
tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	397.47	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,537.00
tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	23.00	24.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	74,124,875.00	0.00

## 2.0 Emissions Summary

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NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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					
2018	4.0988	36.2526	28.8501	0.0598	1.4470	1.8325	3.2796	0.3590	1.7261	2.0851	0.0000	5,958.204 2	5,958.204 2	1.3347	0.0000	5,991.572 0
2019	3.9312	32.8432	28.2358	0.0595	0.6626	1.6420	2.2352	0.1665	1.5672	1.6485	0.0000	5,878.468 1	5,878.468 1	1.3180	0.0000	5,911.4192
2020	3.5909	29.9662	25.0817	0.0562	0.3066	1.5333	1.7633	0.0813	1.4264	1.4874	0.0000	5,343.617 3	5,343.617 3	1.2371	0.0000	5,374.544 3
2021	2.4539	23.8323	23.9812	0.0385	0.2299	1.2811	1.5110	0.0610	1.1921	1.2530	0.0000	3,719.975 1	3,719.975 1	0.9712	0.0000	3,744.253 9
<b>Maximum</b>	<b>4.0988</b>	<b>36.2526</b>	<b>28.8501</b>	<b>0.0598</b>	<b>1.4470</b>	<b>1.8325</b>	<b>3.2796</b>	<b>0.3590</b>	<b>1.7261</b>	<b>2.0851</b>	<b>0.0000</b>	<b>5,958.204 2</b>	<b>5,958.204 2</b>	<b>1.3347</b>	<b>0.0000</b>	<b>5,991.572 0</b>



NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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	3.1000e-003	3.0000e-004	0.0329	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0702	0.0702	1.9000e-004		0.0749
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>3.1000e-003</b>	<b>3.0000e-004</b>	<b>0.0329</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0702</b>	<b>0.0702</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.0749</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	1.3100e-003	1.7000e-004	0.0191	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0378	0.0378	8.0000e-005		0.0398
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>1.3100e-003</b>	<b>1.7000e-004</b>	<b>0.0191</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0378</b>	<b>0.0378</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.0398</b>

## NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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	57.74	43.33	42.08	0.00	0.00	58.33	58.33	0.00	58.33	58.33	0.00	46.10	46.10	57.89	0.00	46.83

### 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	Trenching	Trenching	11/14/2018	8/20/2019	5	200	
2	Tunneling	Trenching	8/21/2019	5/26/2020	5	200	
3	Subaqueous Pipeline	Trenching	5/27/2020	3/2/2021	5	200	
4	Paving	Paving	3/3/2021	12/7/2021	5	200	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment



NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trenching	Concrete/Industrial Saws	1	8.00	81	0.73
Trenching	Excavators	2	8.00	158	0.38
Trenching	Off-Highway Trucks	1	8.00	402	0.38
Trenching	Rollers	2	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Welders	2	8.00	46	0.45
Tunneling	Bore/Drill Rigs	1	8.00	221	0.50
Tunneling	Cranes	1	8.00	231	0.29
Tunneling	Crushing/Proc. Equipment	1	8.00	85	0.78
Tunneling	Generator Sets	1	8.00	84	0.74
Tunneling	Off-Highway Trucks	1	8.00	402	0.38
Tunneling	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Tunneling	Welders	2	8.00	46	0.45
Subaqueous Pipeline	Forklifts	1	8.00	89	0.20
Subaqueous Pipeline	Generator Sets	1	8.00	84	0.74
Subaqueous Pipeline	Other Construction Equipment	4	8.00	172	0.42
Subaqueous Pipeline	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Crushing/Proc. Equipment	1	8.00	85	0.78
Paving	Off-Highway Trucks	1	8.00	402	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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
Trenching	10	26.00	0.00	2,537.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Tunneling	9	24.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Subaqueous Pipeline	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Trenching - 2018**

**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					0.0745	0.0000	0.0745	9.2000e-003	0.0000	9.2000e-003			0.0000			0.0000
Off-Road	3.8025	32.0419	26.7394	0.0464		1.8140	1.8140		1.7084	1.7084		4,529.7709	4,529.7709	1.2220		4,560.3202
<b>Total</b>	<b>3.8025</b>	<b>32.0419</b>	<b>26.7394</b>	<b>0.0464</b>	<b>0.0745</b>	<b>1.8140</b>	<b>1.8885</b>	<b>9.2000e-003</b>	<b>1.7084</b>	<b>1.7176</b>		<b>4,529.7709</b>	<b>4,529.7709</b>	<b>1.2220</b>		<b>4,560.3202</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.2 Trenching - 2018**

**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	0.1194	4.0779	0.8947	0.0100	1.0405	0.0163	1.0567	0.2617	0.0155	0.2773		1,091.2129	1,091.2129	0.1015		1,093.7498
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	0.1769	0.1327	1.2160	3.3900e-003	0.3321	2.3000e-003	0.3344	0.0881	2.1200e-003	0.0902		337.2204	337.2204	0.0113		337.5020
<b>Total</b>	<b>0.2963</b>	<b>4.2106</b>	<b>2.1107</b>	<b>0.0134</b>	<b>1.3726</b>	<b>0.0186</b>	<b>1.3911</b>	<b>0.3498</b>	<b>0.0177</b>	<b>0.3675</b>		<b>1,428.4332</b>	<b>1,428.4332</b>	<b>0.1128</b>		<b>1,431.2519</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					0.0335	0.0000	0.0335	4.1400e-003	0.0000	4.1400e-003			0.0000			0.0000
Off-Road	1.1949	23.8092	30.3451	0.0464		1.3279	1.3279		1.3279	1.3279	0.0000	4,529.7709	4,529.7709	1.2220		4,560.3202
<b>Total</b>	<b>1.1949</b>	<b>23.8092</b>	<b>30.3451</b>	<b>0.0464</b>	<b>0.0335</b>	<b>1.3279</b>	<b>1.3614</b>	<b>4.1400e-003</b>	<b>1.3279</b>	<b>1.3321</b>	<b>0.0000</b>	<b>4,529.7709</b>	<b>4,529.7709</b>	<b>1.2220</b>		<b>4,560.3202</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.2 Trenching - 2018**

**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	0.1194	4.0779	0.8947	0.0100	1.0405	0.0163	1.0567	0.2617	0.0155	0.2773		1,091.2129	1,091.2129	0.1015		1,093.7498
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	0.1769	0.1327	1.2160	3.3900e-003	0.3321	2.3000e-003	0.3344	0.0881	2.1200e-003	0.0902		337.2204	337.2204	0.0113		337.5020
<b>Total</b>	<b>0.2963</b>	<b>4.2106</b>	<b>2.1107</b>	<b>0.0134</b>	<b>1.3726</b>	<b>0.0186</b>	<b>1.3911</b>	<b>0.3498</b>	<b>0.0177</b>	<b>0.3675</b>		<b>1,428.4332</b>	<b>1,428.4332</b>	<b>0.1128</b>		<b>1,431.2519</b>

**3.2 Trenching - 2019**

**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					0.0745	0.0000	0.0745	9.2000e-003	0.0000	9.2000e-003			0.0000			0.0000
Off-Road	3.3824	28.5469	26.2597	0.0464		1.5556	1.5556		1.4655	1.4655		4,472.0551	4,472.0551	1.2072		4,502.2348
<b>Total</b>	<b>3.3824</b>	<b>28.5469</b>	<b>26.2597</b>	<b>0.0464</b>	<b>0.0745</b>	<b>1.5556</b>	<b>1.6301</b>	<b>9.2000e-003</b>	<b>1.4655</b>	<b>1.4747</b>		<b>4,472.0551</b>	<b>4,472.0551</b>	<b>1.2072</b>		<b>4,502.2348</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.2 Trenching - 2019**

**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	0.1132	3.8493	0.8814	9.9000e-003	0.2560	0.0147	0.2707	0.0692	0.0141	0.0833		1,079.3779	1,079.3779	0.1007		1,081.8947
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	0.1636	0.1187	1.0948	3.2800e-003	0.3321	2.2800e-003	0.3344	0.0881	2.1000e-003	0.0902		327.0352	327.0352	0.0102		327.2897
<b>Total</b>	<b>0.2768</b>	<b>3.9680</b>	<b>1.9762</b>	<b>0.0132</b>	<b>0.5881</b>	<b>0.0170</b>	<b>0.6051</b>	<b>0.1573</b>	<b>0.0162</b>	<b>0.1734</b>		<b>1,406.4130</b>	<b>1,406.4130</b>	<b>0.1109</b>		<b>1,409.1844</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					0.0335	0.0000	0.0335	4.1400e-003	0.0000	4.1400e-003			0.0000			0.0000
Off-Road	1.1949	23.8092	30.3451	0.0464		1.3279	1.3279		1.3279	1.3279	0.0000	4,472.0551	4,472.0551	1.2072		4,502.2348
<b>Total</b>	<b>1.1949</b>	<b>23.8092</b>	<b>30.3451</b>	<b>0.0464</b>	<b>0.0335</b>	<b>1.3279</b>	<b>1.3614</b>	<b>4.1400e-003</b>	<b>1.3279</b>	<b>1.3321</b>	<b>0.0000</b>	<b>4,472.0551</b>	<b>4,472.0551</b>	<b>1.2072</b>		<b>4,502.2348</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.2 Trenching - 2019**

**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	0.1132	3.8493	0.8814	9.9000e-003	0.2560	0.0147	0.2707	0.0692	0.0141	0.0833		1,079.3779	1,079.3779	0.1007		1,081.8947
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	0.1636	0.1187	1.0948	3.2800e-003	0.3321	2.2800e-003	0.3344	0.0881	2.1000e-003	0.0902		327.0352	327.0352	0.0102		327.2897
<b>Total</b>	<b>0.2768</b>	<b>3.9680</b>	<b>1.9762</b>	<b>0.0132</b>	<b>0.5881</b>	<b>0.0170</b>	<b>0.6051</b>	<b>0.1573</b>	<b>0.0162</b>	<b>0.1734</b>		<b>1,406.4130</b>	<b>1,406.4130</b>	<b>0.1109</b>		<b>1,409.1844</b>

**3.3 Tunneling - 2019**

**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	3.7802	32.7336	24.6717	0.0533		1.6399	1.6399		1.5652	1.5652		5,123.8059	5,123.8059	1.2451		5,154.9329
<b>Total</b>	<b>3.7802</b>	<b>32.7336</b>	<b>24.6717</b>	<b>0.0533</b>		<b>1.6399</b>	<b>1.6399</b>		<b>1.5652</b>	<b>1.5652</b>		<b>5,123.8059</b>	<b>5,123.8059</b>	<b>1.2451</b>		<b>5,154.9329</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.3 Tunneling - 2019**

**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	0.1510	0.1096	1.0105	3.0300e-003	0.3066	2.1000e-003	0.3087	0.0813	1.9400e-003	0.0832		301.8786	301.8786	9.4000e-003		302.1136
<b>Total</b>	<b>0.1510</b>	<b>0.1096</b>	<b>1.0105</b>	<b>3.0300e-003</b>	<b>0.3066</b>	<b>2.1000e-003</b>	<b>0.3087</b>	<b>0.0813</b>	<b>1.9400e-003</b>	<b>0.0832</b>		<b>301.8786</b>	<b>301.8786</b>	<b>9.4000e-003</b>		<b>302.1136</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	1.3345	26.5705	31.2047	0.0533		1.3951	1.3951		1.3951	1.3951	0.0000	5,123.8059	5,123.8059	1.2451		5,154.9329
<b>Total</b>	<b>1.3345</b>	<b>26.5705</b>	<b>31.2047</b>	<b>0.0533</b>		<b>1.3951</b>	<b>1.3951</b>		<b>1.3951</b>	<b>1.3951</b>	<b>0.0000</b>	<b>5,123.8059</b>	<b>5,123.8059</b>	<b>1.2451</b>		<b>5,154.9329</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.3 Tunneling - 2019**

**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	0.1510	0.1096	1.0105	3.0300e-003	0.3066	2.1000e-003	0.3087	0.0813	1.9400e-003	0.0832		301.8786	301.8786	9.4000e-003		302.1136
<b>Total</b>	<b>0.1510</b>	<b>0.1096</b>	<b>1.0105</b>	<b>3.0300e-003</b>	<b>0.3066</b>	<b>2.1000e-003</b>	<b>0.3087</b>	<b>0.0813</b>	<b>1.9400e-003</b>	<b>0.0832</b>		<b>301.8786</b>	<b>301.8786</b>	<b>9.4000e-003</b>		<b>302.1136</b>

**3.3 Tunneling - 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					
Off-Road	3.4493	29.8672	24.1574	0.0533		1.4313	1.4313		1.3656	1.3656		5,051.2757	5,051.2757	1.2286		5,081.9903
<b>Total</b>	<b>3.4493</b>	<b>29.8672</b>	<b>24.1574</b>	<b>0.0533</b>		<b>1.4313</b>	<b>1.4313</b>		<b>1.3656</b>	<b>1.3656</b>		<b>5,051.2757</b>	<b>5,051.2757</b>	<b>1.2286</b>		<b>5,081.9903</b>



NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.3 Tunneling - 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	0.1416	0.0990	0.9243	2.9300e-003	0.3066	2.0700e-003	0.3086	0.0813	1.9100e-003	0.0832		292.3416	292.3416	8.5000e-003		292.5540
<b>Total</b>	<b>0.1416</b>	<b>0.0990</b>	<b>0.9243</b>	<b>2.9300e-003</b>	<b>0.3066</b>	<b>2.0700e-003</b>	<b>0.3086</b>	<b>0.0813</b>	<b>1.9100e-003</b>	<b>0.0832</b>		<b>292.3416</b>	<b>292.3416</b>	<b>8.5000e-003</b>		<b>292.5540</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	1.3345	26.5705	31.2047	0.0533		1.3951	1.3951		1.3951	1.3951	0.0000	5,051.2757	5,051.2757	1.2286		5,081.9903
<b>Total</b>	<b>1.3345</b>	<b>26.5705</b>	<b>31.2047</b>	<b>0.0533</b>		<b>1.3951</b>	<b>1.3951</b>		<b>1.3951</b>	<b>1.3951</b>	<b>0.0000</b>	<b>5,051.2757</b>	<b>5,051.2757</b>	<b>1.2286</b>		<b>5,081.9903</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.3 Tunneling - 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	0.1416	0.0990	0.9243	2.9300e-003	0.3066	2.0700e-003	0.3086	0.0813	1.9100e-003	0.0832		292.3416	292.3416	8.5000e-003		292.5540
<b>Total</b>	<b>0.1416</b>	<b>0.0990</b>	<b>0.9243</b>	<b>2.9300e-003</b>	<b>0.3066</b>	<b>2.0700e-003</b>	<b>0.3086</b>	<b>0.0813</b>	<b>1.9100e-003</b>	<b>0.0832</b>		<b>292.3416</b>	<b>292.3416</b>	<b>8.5000e-003</b>		<b>292.5540</b>

**3.4 Subaqueous Pipeline - 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					
Off-Road	2.7286	27.8377	23.6538	0.0359		1.5318	1.5318		1.4250	1.4250		3,467.0503	3,467.0503	0.9549		3,490.9226
<b>Total</b>	<b>2.7286</b>	<b>27.8377</b>	<b>23.6538</b>	<b>0.0359</b>		<b>1.5318</b>	<b>1.5318</b>		<b>1.4250</b>	<b>1.4250</b>		<b>3,467.0503</b>	<b>3,467.0503</b>	<b>0.9549</b>		<b>3,490.9226</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.4 Subaqueous Pipeline - 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	0.1062	0.0742	0.6932	2.2000e-003	0.2299	1.5500e-003	0.2315	0.0610	1.4300e-003	0.0624		219.2562	219.2562	6.3700e-003		219.4155
<b>Total</b>	<b>0.1062</b>	<b>0.0742</b>	<b>0.6932</b>	<b>2.2000e-003</b>	<b>0.2299</b>	<b>1.5500e-003</b>	<b>0.2315</b>	<b>0.0610</b>	<b>1.4300e-003</b>	<b>0.0624</b>		<b>219.2562</b>	<b>219.2562</b>	<b>6.3700e-003</b>		<b>219.4155</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	0.8568	17.4221	26.4166	0.0359		0.9631	0.9631		0.9631	0.9631	0.0000	3,467.0503	3,467.0503	0.9549		3,490.9226
<b>Total</b>	<b>0.8568</b>	<b>17.4221</b>	<b>26.4166</b>	<b>0.0359</b>		<b>0.9631</b>	<b>0.9631</b>		<b>0.9631</b>	<b>0.9631</b>	<b>0.0000</b>	<b>3,467.0503</b>	<b>3,467.0503</b>	<b>0.9549</b>		<b>3,490.9226</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.4 Subaqueous Pipeline - 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	0.1062	0.0742	0.6932	2.2000e-003	0.2299	1.5500e-003	0.2315	0.0610	1.4300e-003	0.0624		219.2562	219.2562	6.3700e-003		219.4155
<b>Total</b>	<b>0.1062</b>	<b>0.0742</b>	<b>0.6932</b>	<b>2.2000e-003</b>	<b>0.2299</b>	<b>1.5500e-003</b>	<b>0.2315</b>	<b>0.0610</b>	<b>1.4300e-003</b>	<b>0.0624</b>		<b>219.2562</b>	<b>219.2562</b>	<b>6.3700e-003</b>		<b>219.4155</b>

**3.4 Subaqueous Pipeline - 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	2.3535	23.7648	23.3333	0.0359		1.2796	1.2796		1.1906	1.1906		3,466.0633	3,466.0633	0.9513		3,489.8454
<b>Total</b>	<b>2.3535</b>	<b>23.7648</b>	<b>23.3333</b>	<b>0.0359</b>		<b>1.2796</b>	<b>1.2796</b>		<b>1.1906</b>	<b>1.1906</b>		<b>3,466.0633</b>	<b>3,466.0633</b>	<b>0.9513</b>		<b>3,489.8454</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.4 Subaqueous Pipeline - 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	0.1004	0.0675	0.6479	2.1300e-003	0.2299	1.5300e-003	0.2314	0.0610	1.4100e-003	0.0624		211.8832	211.8832	5.8800e-003		212.0303
<b>Total</b>	<b>0.1004</b>	<b>0.0675</b>	<b>0.6479</b>	<b>2.1300e-003</b>	<b>0.2299</b>	<b>1.5300e-003</b>	<b>0.2314</b>	<b>0.0610</b>	<b>1.4100e-003</b>	<b>0.0624</b>		<b>211.8832</b>	<b>211.8832</b>	<b>5.8800e-003</b>		<b>212.0303</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	0.8568	17.4221	26.4166	0.0359		0.9631	0.9631		0.9631	0.9631	0.0000	3,466.0633	3,466.0633	0.9513		3,489.8454
<b>Total</b>	<b>0.8568</b>	<b>17.4221</b>	<b>26.4166</b>	<b>0.0359</b>		<b>0.9631</b>	<b>0.9631</b>		<b>0.9631</b>	<b>0.9631</b>	<b>0.0000</b>	<b>3,466.0633</b>	<b>3,466.0633</b>	<b>0.9513</b>		<b>3,489.8454</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.4 Subaqueous Pipeline - 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	0.1004	0.0675	0.6479	2.1300e-003	0.2299	1.5300e-003	0.2314	0.0610	1.4100e-003	0.0624		211.8832	211.8832	5.8800e-003		212.0303
<b>Total</b>	<b>0.1004</b>	<b>0.0675</b>	<b>0.6479</b>	<b>2.1300e-003</b>	<b>0.2299</b>	<b>1.5300e-003</b>	<b>0.2314</b>	<b>0.0610</b>	<b>1.4100e-003</b>	<b>0.0624</b>		<b>211.8832</b>	<b>211.8832</b>	<b>5.8800e-003</b>		<b>212.0303</b>

**3.5 Paving - 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	2.1179	18.9936	19.1299	0.0364		0.9854	0.9854		0.9233	0.9233		3,508.0919	3,508.0919	0.9653		3,532.2236
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1179</b>	<b>18.9936</b>	<b>19.1299</b>	<b>0.0364</b>		<b>0.9854</b>	<b>0.9854</b>		<b>0.9233</b>	<b>0.9233</b>		<b>3,508.0919</b>	<b>3,508.0919</b>	<b>0.9653</b>		<b>3,532.2236</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.5 Paving - 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	0.1004	0.0675	0.6479	2.1300e-003	0.2299	1.5300e-003	0.2314	0.0610	1.4100e-003	0.0624		211.8832	211.8832	5.8800e-003		212.0303
<b>Total</b>	<b>0.1004</b>	<b>0.0675</b>	<b>0.6479</b>	<b>2.1300e-003</b>	<b>0.2299</b>	<b>1.5300e-003</b>	<b>0.2314</b>	<b>0.0610</b>	<b>1.4100e-003</b>	<b>0.0624</b>		<b>211.8832</b>	<b>211.8832</b>	<b>5.8800e-003</b>		<b>212.0303</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	0.8598	18.0957	23.5463	0.0364		1.0184	1.0184		1.0184	1.0184	0.0000	3,508.0919	3,508.0919	0.9653		3,532.2236
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8598</b>	<b>18.0957</b>	<b>23.5463</b>	<b>0.0364</b>		<b>1.0184</b>	<b>1.0184</b>		<b>1.0184</b>	<b>1.0184</b>	<b>0.0000</b>	<b>3,508.0919</b>	<b>3,508.0919</b>	<b>0.9653</b>		<b>3,532.2236</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**3.5 Paving - 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	0.1004	0.0675	0.6479	2.1300e-003	0.2299	1.5300e-003	0.2314	0.0610	1.4100e-003	0.0624		211.8832	211.8832	5.8800e-003		212.0303
<b>Total</b>	<b>0.1004</b>	<b>0.0675</b>	<b>0.6479</b>	<b>2.1300e-003</b>	<b>0.2299</b>	<b>1.5300e-003</b>	<b>0.2314</b>	<b>0.0610</b>	<b>1.4100e-003</b>	<b>0.0624</b>		<b>211.8832</b>	<b>211.8832</b>	<b>5.8800e-003</b>		<b>212.0303</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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	0.0000	0.0000	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**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	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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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**

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- No Hearths Installed
- Use Low VOC Cleaning Supplies

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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	1.3100e-003	1.7000e-004	0.0191	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0378	0.0378	8.0000e-005		0.0398
Unmitigated	3.1000e-003	3.0000e-004	0.0329	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0702	0.0702	1.9000e-004		0.0749

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
Landscaping	3.1000e-003	3.0000e-004	0.0329	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0702	0.0702	1.9000e-004		0.0749
<b>Total</b>	<b>3.1000e-003</b>	<b>3.0000e-004</b>	<b>0.0329</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0702</b>	<b>0.0702</b>	<b>1.9000e-004</b>		<b>0.0749</b>

NCPWF Pipeline-Open Trench - San Diego County APCD Air District, 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3100e-003	1.7000e-004	0.0191	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0378	0.0378	8.0000e-005		0.0398
<b>Total</b>	<b>1.3100e-003</b>	<b>1.7000e-004</b>	<b>0.0191</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0378</b>	<b>0.0378</b>	<b>8.0000e-005</b>		<b>0.0398</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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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NCPWF Pipeline-Open Trench - San Diego County APCD Air District, Winter

**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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NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Annual

**NCPWF Pipeline-Trenchless**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.06	1000sqft	0.05	2,057.63	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

## NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Annual

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.





NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Annual

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1.00	100.00
tblConstructionPhase	NumDays	1.00	100.00
tblConstructionPhase	NumDays	1.00	100.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	BuildingSpaceSquareFeet	2,060.00	2,057.63
tblLandUse	LandUseSquareFeet	2,060.00	2,057.63
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Pipe Connections
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Site Preparation at Portal Sites
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Pipe Installation
tblOffRoadEquipment	UsageHours	4.00	8.00

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tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	2.55	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	2.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	476,375.00	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					
2018	0.0337	0.4078	0.2280	4.4000e-004	1.7000e-003	0.0166	0.0183	4.5000e-004	0.0153	0.0158	0.0000	40.2875	40.2875	0.0121	0.0000	40.5898
2019	0.2098	2.0944	1.4040	2.4800e-003	0.0144	0.1089	0.1233	3.8200e-003	0.1014	0.1052	0.0000	221.1154	221.1154	0.0591	0.0000	222.5921
2020	0.0811	0.6561	0.5127	8.9000e-004	3.2200e-003	0.0347	0.0379	8.7000e-004	0.0326	0.0335	0.0000	74.5230	74.5230	0.0195	0.0000	75.0108
<b>Maximum</b>	<b>0.2098</b>	<b>2.0944</b>	<b>1.4040</b>	<b>2.4800e-003</b>	<b>0.0144</b>	<b>0.1089</b>	<b>0.1233</b>	<b>3.8200e-003</b>	<b>0.1014</b>	<b>0.1052</b>	<b>0.0000</b>	<b>221.1154</b>	<b>221.1154</b>	<b>0.0591</b>	<b>0.0000</b>	<b>222.5921</b>

**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					
2018	0.0112	0.2060	0.2433	4.4000e-004	1.7000e-003	8.7500e-003	0.0104	4.5000e-004	8.7500e-003	9.2000e-003	0.0000	40.2874	40.2874	0.0121	0.0000	40.5897
2019	0.0619	1.1523	1.5031	2.4800e-003	0.0144	0.0603	0.0747	3.8200e-003	0.0603	0.0642	0.0000	221.1152	221.1152	0.0591	0.0000	222.5919
2020	0.0263	0.4812	0.5349	8.9000e-004	3.2200e-003	0.0269	0.0302	8.7000e-004	0.0269	0.0278	0.0000	74.5230	74.5230	0.0195	0.0000	75.0108
<b>Maximum</b>	<b>0.0619</b>	<b>1.1523</b>	<b>1.5031</b>	<b>2.4800e-003</b>	<b>0.0144</b>	<b>0.0603</b>	<b>0.0747</b>	<b>3.8200e-003</b>	<b>0.0603</b>	<b>0.0642</b>	<b>0.0000</b>	<b>221.1152</b>	<b>221.1152</b>	<b>0.0591</b>	<b>0.0000</b>	<b>222.5919</b>

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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	69.38	41.76	-6.37	0.00	0.00	40.07	35.77	0.00	35.67	34.48	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	11-14-2018	2-13-2019	0.8178	0.4200
2	2-14-2019	5-13-2019	0.4063	0.2190
		Highest	0.8178	0.4200

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	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-005	4.0000e-005	0.0000	0.0000	4.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4.0000e-005	4.0000e-005	0.0000	0.0000	4.0000e-005

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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	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</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	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00	0.00	0.00	50.00

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation at Portal Sites	Site Preparation	11/14/2018	4/2/2019	5	100	
2	Portal Excavation	Site Preparation	4/3/2019	8/20/2019	5	100	
3	Site Restoration	Site Preparation	8/21/2019	1/7/2020	5	100	
4	Pipe Installation	Building Construction	1/8/2020	5/26/2020	5	100	
5	Pipe Connections	Building Construction	5/27/2020	10/13/2020	5	100	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation at Portal Sites	Graders	1	8.00	187	0.41
Site Preparation at Portal Sites	Scrapers	1	8.00	367	0.48
Site Preparation at Portal Sites	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Portal Excavation	Excavators	1	8.00	158	0.38
Portal Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Portal Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Trenchers	1	8.00	78	0.50
Site Restoration	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipe Installation	Cranes	1	8.00	231	0.29
Pipe Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipe Installation	Welders	2	8.00	46	0.45
Pipe Connections	Other General Industrial Equipment	1	8.00	88	0.34

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation at Portal Sites	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Portal Excavation	5	14.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Restoration	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipe Installation	4	2.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipe Connections	1	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



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Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Site Preparation at Portal Sites - 2018**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0329	0.4071	0.2217	4.2000e-004		0.0166	0.0166		0.0153	0.0153	0.0000	38.6712	38.6712	0.0120	0.0000	38.9722
<b>Total</b>	<b>0.0329</b>	<b>0.4071</b>	<b>0.2217</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>0.0166</b>	<b>0.0166</b>	<b>0.0000</b>	<b>0.0153</b>	<b>0.0153</b>	<b>0.0000</b>	<b>38.6712</b>	<b>38.6712</b>	<b>0.0120</b>	<b>0.0000</b>	<b>38.9722</b>

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**3.2 Site Preparation at Portal Sites - 2018**

**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	6.8000e-004	6.3900e-003	2.0000e-005	1.7000e-003	1.0000e-005	1.7100e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.6163	1.6163	5.0000e-005	0.0000	1.6176
<b>Total</b>	<b>8.2000e-004</b>	<b>6.8000e-004</b>	<b>6.3900e-003</b>	<b>2.0000e-005</b>	<b>1.7000e-003</b>	<b>1.0000e-005</b>	<b>1.7100e-003</b>	<b>4.5000e-004</b>	<b>1.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>1.6163</b>	<b>1.6163</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.6176</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0104	0.2054	0.2369	4.2000e-004		8.7400e-003	8.7400e-003		8.7400e-003	8.7400e-003	0.0000	38.6711	38.6711	0.0120	0.0000	38.9721
<b>Total</b>	<b>0.0104</b>	<b>0.2054</b>	<b>0.2369</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>8.7400e-003</b>	<b>8.7400e-003</b>	<b>0.0000</b>	<b>8.7400e-003</b>	<b>8.7400e-003</b>	<b>0.0000</b>	<b>38.6711</b>	<b>38.6711</b>	<b>0.0120</b>	<b>0.0000</b>	<b>38.9721</b>

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**3.2 Site Preparation at Portal Sites - 2018**

**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	6.8000e-004	6.3900e-003	2.0000e-005	1.7000e-003	1.0000e-005	1.7100e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.6163	1.6163	5.0000e-005	0.0000	1.6176
<b>Total</b>	<b>8.2000e-004</b>	<b>6.8000e-004</b>	<b>6.3900e-003</b>	<b>2.0000e-005</b>	<b>1.7000e-003</b>	<b>1.0000e-005</b>	<b>1.7100e-003</b>	<b>4.5000e-004</b>	<b>1.0000e-005</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>1.6163</b>	<b>1.6163</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.6176</b>

**3.2 Site Preparation at Portal Sites - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0589	0.7204	0.4027	8.2000e-004		0.0288	0.0288		0.0265	0.0265	0.0000	73.7945	73.7945	0.0234	0.0000	74.3781
<b>Total</b>	<b>0.0589</b>	<b>0.7204</b>	<b>0.4027</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>0.0288</b>	<b>0.0288</b>	<b>0.0000</b>	<b>0.0265</b>	<b>0.0265</b>	<b>0.0000</b>	<b>73.7945</b>	<b>73.7945</b>	<b>0.0234</b>	<b>0.0000</b>	<b>74.3781</b>

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**3.2 Site Preparation at Portal Sites - 2019**

**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	1.4600e-003	1.1900e-003	0.0112	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	3.0428	3.0428	9.0000e-005	0.0000	3.0451
<b>Total</b>	<b>1.4600e-003</b>	<b>1.1900e-003</b>	<b>0.0112</b>	<b>3.0000e-005</b>	<b>3.2900e-003</b>	<b>2.0000e-005</b>	<b>3.3100e-003</b>	<b>8.7000e-004</b>	<b>2.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>3.0428</b>	<b>3.0428</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.0451</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0202	0.3986	0.4599	8.2000e-004		0.0170	0.0170		0.0170	0.0170	0.0000	73.7944	73.7944	0.0234	0.0000	74.3781
<b>Total</b>	<b>0.0202</b>	<b>0.3986</b>	<b>0.4599</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>0.0170</b>	<b>0.0170</b>	<b>0.0000</b>	<b>0.0170</b>	<b>0.0170</b>	<b>0.0000</b>	<b>73.7944</b>	<b>73.7944</b>	<b>0.0234</b>	<b>0.0000</b>	<b>74.3781</b>

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**3.2 Site Preparation at Portal Sites - 2019**

**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	1.4600e-003	1.1900e-003	0.0112	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	3.0428	3.0428	9.0000e-005	0.0000	3.0451
<b>Total</b>	<b>1.4600e-003</b>	<b>1.1900e-003</b>	<b>0.0112</b>	<b>3.0000e-005</b>	<b>3.2900e-003</b>	<b>2.0000e-005</b>	<b>3.3100e-003</b>	<b>8.7000e-004</b>	<b>2.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>3.0428</b>	<b>3.0428</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.0451</b>

**3.3 Portal Excavation - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1335	1.2578	0.8431	1.3600e-003		0.0726	0.0726		0.0679	0.0679	0.0000	120.7680	120.7680	0.0311	0.0000	121.5459
<b>Total</b>	<b>0.1335</b>	<b>1.2578</b>	<b>0.8431</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>0.0726</b>	<b>0.0726</b>	<b>0.0000</b>	<b>0.0679</b>	<b>0.0679</b>	<b>0.0000</b>	<b>120.7680</b>	<b>120.7680</b>	<b>0.0311</b>	<b>0.0000</b>	<b>121.5459</b>

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**3.3 Portal Excavation - 2019**

**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	3.8700e-003	3.1400e-003	0.0297	9.0000e-005	8.7300e-003	6.0000e-005	8.7900e-003	2.3200e-003	6.0000e-005	2.3800e-003	0.0000	8.0679	8.0679	2.5000e-004	0.0000	8.0742
<b>Total</b>	<b>3.8700e-003</b>	<b>3.1400e-003</b>	<b>0.0297</b>	<b>9.0000e-005</b>	<b>8.7300e-003</b>	<b>6.0000e-005</b>	<b>8.7900e-003</b>	<b>2.3200e-003</b>	<b>6.0000e-005</b>	<b>2.3800e-003</b>	<b>0.0000</b>	<b>8.0679</b>	<b>8.0679</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>8.0742</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0318	0.6661	0.8831	1.3600e-003		0.0375	0.0375		0.0375	0.0375	0.0000	120.7679	120.7679	0.0311	0.0000	121.5457
<b>Total</b>	<b>0.0318</b>	<b>0.6661</b>	<b>0.8831</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>0.0375</b>	<b>0.0375</b>	<b>0.0000</b>	<b>0.0375</b>	<b>0.0375</b>	<b>0.0000</b>	<b>120.7679</b>	<b>120.7679</b>	<b>0.0311</b>	<b>0.0000</b>	<b>121.5457</b>

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**3.3 Portal Excavation - 2019**

**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	3.8700e-003	3.1400e-003	0.0297	9.0000e-005	8.7300e-003	6.0000e-005	8.7900e-003	2.3200e-003	6.0000e-005	2.3800e-003	0.0000	8.0679	8.0679	2.5000e-004	0.0000	8.0742
<b>Total</b>	<b>3.8700e-003</b>	<b>3.1400e-003</b>	<b>0.0297</b>	<b>9.0000e-005</b>	<b>8.7300e-003</b>	<b>6.0000e-005</b>	<b>8.7900e-003</b>	<b>2.3200e-003</b>	<b>6.0000e-005</b>	<b>2.3800e-003</b>	<b>0.0000</b>	<b>8.0679</b>	<b>8.0679</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>8.0742</b>

**3.4 Site Restoration - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1110	0.1094	1.5000e-004		7.4100e-003	7.4100e-003		6.8200e-003	6.8200e-003	0.0000	13.2524	13.2524	4.1900e-003	0.0000	13.3572
<b>Total</b>	<b>0.0111</b>	<b>0.1110</b>	<b>0.1094</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>7.4100e-003</b>	<b>7.4100e-003</b>	<b>0.0000</b>	<b>6.8200e-003</b>	<b>6.8200e-003</b>	<b>0.0000</b>	<b>13.2524</b>	<b>13.2524</b>	<b>4.1900e-003</b>	<b>0.0000</b>	<b>13.3572</b>

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**3.4 Site Restoration - 2019**

**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	1.0500e-003	8.5000e-004	8.0500e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	2.0000e-005	6.4000e-004	0.0000	2.1899	2.1899	7.0000e-005	0.0000	2.1916
<b>Total</b>	<b>1.0500e-003</b>	<b>8.5000e-004</b>	<b>8.0500e-003</b>	<b>2.0000e-005</b>	<b>2.3700e-003</b>	<b>2.0000e-005</b>	<b>2.3900e-003</b>	<b>6.3000e-004</b>	<b>2.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>2.1899</b>	<b>2.1899</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.1916</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6100e-003	0.0824	0.1113	1.5000e-004		5.7700e-003	5.7700e-003		5.7700e-003	5.7700e-003	0.0000	13.2524	13.2524	4.1900e-003	0.0000	13.3572
<b>Total</b>	<b>3.6100e-003</b>	<b>0.0824</b>	<b>0.1113</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>5.7700e-003</b>	<b>5.7700e-003</b>	<b>0.0000</b>	<b>5.7700e-003</b>	<b>5.7700e-003</b>	<b>0.0000</b>	<b>13.2524</b>	<b>13.2524</b>	<b>4.1900e-003</b>	<b>0.0000</b>	<b>13.3572</b>



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**3.4 Site Restoration - 2019**

**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	1.0500e-003	8.5000e-004	8.0500e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	2.0000e-005	6.4000e-004	0.0000	2.1899	2.1899	7.0000e-005	0.0000	2.1916
<b>Total</b>	<b>1.0500e-003</b>	<b>8.5000e-004</b>	<b>8.0500e-003</b>	<b>2.0000e-005</b>	<b>2.3700e-003</b>	<b>2.0000e-005</b>	<b>2.3900e-003</b>	<b>6.3000e-004</b>	<b>2.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>2.1899</b>	<b>2.1899</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.1916</b>

**3.4 Site Restoration - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2000e-004	5.2600e-003	5.7000e-003	1.0000e-005		3.3000e-004	3.3000e-004		3.1000e-004	3.1000e-004	0.0000	0.6821	0.6821	2.2000e-004	0.0000	0.6877
<b>Total</b>	<b>5.2000e-004</b>	<b>5.2600e-003</b>	<b>5.7000e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>0.6821</b>	<b>0.6821</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.6877</b>

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**3.4 Site Restoration - 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	5.0000e-005	4.0000e-005	3.9000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1116	0.1116	0.0000	0.0000	0.1117
<b>Total</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1116</b>	<b>0.1116</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1117</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9000e-004	4.3400e-003	5.8600e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	0.6821	0.6821	2.2000e-004	0.0000	0.6877
<b>Total</b>	<b>1.9000e-004</b>	<b>4.3400e-003</b>	<b>5.8600e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.6821</b>	<b>0.6821</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.6877</b>

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**3.4 Site Restoration - 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	5.0000e-005	4.0000e-005	3.9000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1116	0.1116	0.0000	0.0000	0.1117
<b>Total</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1116</b>	<b>0.1116</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1117</b>

**3.5 Pipe Installation - 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					
Off-Road	0.0674	0.5320	0.3965	7.0000e-004		0.0265	0.0265		0.0250	0.0250	0.0000	57.8110	57.8110	0.0154	0.0000	58.1958
<b>Total</b>	<b>0.0674</b>	<b>0.5320</b>	<b>0.3965</b>	<b>7.0000e-004</b>		<b>0.0265</b>	<b>0.0265</b>		<b>0.0250</b>	<b>0.0250</b>	<b>0.0000</b>	<b>57.8110</b>	<b>57.8110</b>	<b>0.0154</b>	<b>0.0000</b>	<b>58.1958</b>

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**3.5 Pipe Installation - 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	3.6000e-004	0.0109	2.8900e-003	3.0000e-005	6.0000e-004	5.0000e-005	6.5000e-004	1.7000e-004	5.0000e-005	2.2000e-004	0.0000	2.4361	2.4361	1.9000e-004	0.0000	2.4409
Worker	5.2000e-004	4.1000e-004	3.8800e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.1162	1.1162	3.0000e-005	0.0000	1.1170
<b>Total</b>	<b>8.8000e-004</b>	<b>0.0113</b>	<b>6.7700e-003</b>	<b>4.0000e-005</b>	<b>1.8500e-003</b>	<b>6.0000e-005</b>	<b>1.9100e-003</b>	<b>5.0000e-004</b>	<b>6.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.5523</b>	<b>3.5523</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>3.5579</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	0.0215	0.3928	0.4204	7.0000e-004		0.0215	0.0215		0.0215	0.0215	0.0000	57.8109	57.8109	0.0154	0.0000	58.1957
<b>Total</b>	<b>0.0215</b>	<b>0.3928</b>	<b>0.4204</b>	<b>7.0000e-004</b>		<b>0.0215</b>	<b>0.0215</b>		<b>0.0215</b>	<b>0.0215</b>	<b>0.0000</b>	<b>57.8109</b>	<b>57.8109</b>	<b>0.0154</b>	<b>0.0000</b>	<b>58.1957</b>

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**3.5 Pipe Installation - 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	3.6000e-004	0.0109	2.8900e-003	3.0000e-005	6.0000e-004	5.0000e-005	6.5000e-004	1.7000e-004	5.0000e-005	2.2000e-004	0.0000	2.4361	2.4361	1.9000e-004	0.0000	2.4409
Worker	5.2000e-004	4.1000e-004	3.8800e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.1162	1.1162	3.0000e-005	0.0000	1.1170
<b>Total</b>	<b>8.8000e-004</b>	<b>0.0113</b>	<b>6.7700e-003</b>	<b>4.0000e-005</b>	<b>1.8500e-003</b>	<b>6.0000e-005</b>	<b>1.9100e-003</b>	<b>5.0000e-004</b>	<b>6.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.5523</b>	<b>3.5523</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>3.5579</b>

**3.6 Pipe Connections - 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					
Off-Road	0.0118	0.1071	0.0995	1.3000e-004		7.8100e-003	7.8100e-003		7.1800e-003	7.1800e-003	0.0000	11.2499	11.2499	3.6400e-003	0.0000	11.3409
<b>Total</b>	<b>0.0118</b>	<b>0.1071</b>	<b>0.0995</b>	<b>1.3000e-004</b>		<b>7.8100e-003</b>	<b>7.8100e-003</b>		<b>7.1800e-003</b>	<b>7.1800e-003</b>	<b>0.0000</b>	<b>11.2499</b>	<b>11.2499</b>	<b>3.6400e-003</b>	<b>0.0000</b>	<b>11.3409</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Annual

**3.6 Pipe Connections - 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	5.2000e-004	4.1000e-004	3.8800e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.1162	1.1162	3.0000e-005	0.0000	1.1170
<b>Total</b>	<b>5.2000e-004</b>	<b>4.1000e-004</b>	<b>3.8800e-003</b>	<b>1.0000e-005</b>	<b>1.2500e-003</b>	<b>1.0000e-005</b>	<b>1.2600e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.1162</b>	<b>1.1162</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.1170</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	3.1700e-003	0.0723	0.0976	1.3000e-004		5.0700e-003	5.0700e-003		5.0700e-003	5.0700e-003	0.0000	11.2499	11.2499	3.6400e-003	0.0000	11.3409
<b>Total</b>	<b>3.1700e-003</b>	<b>0.0723</b>	<b>0.0976</b>	<b>1.3000e-004</b>		<b>5.0700e-003</b>	<b>5.0700e-003</b>		<b>5.0700e-003</b>	<b>5.0700e-003</b>	<b>0.0000</b>	<b>11.2499</b>	<b>11.2499</b>	<b>3.6400e-003</b>	<b>0.0000</b>	<b>11.3409</b>

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**3.6 Pipe Connections - 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	5.2000e-004	4.1000e-004	3.8800e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.1162	1.1162	3.0000e-005	0.0000	1.1170
<b>Total</b>	<b>5.2000e-004</b>	<b>4.1000e-004</b>	<b>3.8800e-003</b>	<b>1.0000e-005</b>	<b>1.2500e-003</b>	<b>1.0000e-005</b>	<b>1.2600e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.1162</b>	<b>1.1162</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.1170</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N





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**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr					
General Light Industry	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	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>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

No Hearths Installed

Use Low VOC Cleaning Supplies

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-005	4.0000e-005	0.0000	0.0000	4.0000e-005

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
Landscaping	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-005	4.0000e-005	0.0000	0.0000	4.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.0000e-005</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	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

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Annual

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	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>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	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**

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Annual

**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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	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>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Annual

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	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**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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**11.0 Vegetation**



NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Annual

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NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**NCPWF Pipeline-Trenchless**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.06	1000sqft	0.05	2,057.63	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

## NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.



NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1.00	100.00
tblConstructionPhase	NumDays	1.00	100.00
tblConstructionPhase	NumDays	1.00	100.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	BuildingSpaceSquareFeet	2,060.00	2,057.63
tblLandUse	LandUseSquareFeet	2,060.00	2,057.63
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Pipe Connections
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Site Preparation at Portal Sites
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Pipe Installation
tblOffRoadEquipment	UsageHours	4.00	8.00

## NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	2.55	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	2.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	476,375.00	0.00

## 2.0 Emissions Summary

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NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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					
2018	1.9798	23.9852	13.4407	0.0260	0.1022	0.9780	1.0802	0.0271	0.8998	0.9269	0.0000	2,618.0795	2,618.0795	0.7843	0.0000	2,637.6871
2019	2.7454	25.2121	17.4981	0.0291	0.1788	1.4533	1.6321	0.0474	1.3596	1.4070	0.0000	2,850.1419	2,850.1419	0.7832	0.0000	2,867.4358
2020	1.3643	10.8625	8.0672	0.0148	0.0511	0.5304	0.5681	0.0136	0.5019	0.5122	0.0000	1,354.8194	1,354.8194	0.3442	0.0000	1,363.4248
<b>Maximum</b>	<b>2.7454</b>	<b>25.2121</b>	<b>17.4981</b>	<b>0.0291</b>	<b>0.1788</b>	<b>1.4533</b>	<b>1.6321</b>	<b>0.0474</b>	<b>1.3596</b>	<b>1.4070</b>	<b>0.0000</b>	<b>2,850.1419</b>	<b>2,850.1419</b>	<b>0.7843</b>	<b>0.0000</b>	<b>2,867.4358</b>

**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					
2018	0.6582	12.1160	14.3385	0.0260	0.1022	0.5147	0.6168	0.0271	0.5146	0.5417	0.0000	2,618.0795	2,618.0795	0.7843	0.0000	2,637.6871
2019	0.7111	13.3794	18.2991	0.0291	0.1788	0.7513	0.9301	0.0474	0.7512	0.7986	0.0000	2,850.1419	2,850.1419	0.7832	0.0000	2,867.4358
2020	0.4467	8.0793	8.5457	0.0148	0.0511	0.4311	0.4689	0.0136	0.4311	0.4414	0.0000	1,354.8194	1,354.8194	0.3442	0.0000	1,363.4248
<b>Maximum</b>	<b>0.7111</b>	<b>13.3794</b>	<b>18.2991</b>	<b>0.0291</b>	<b>0.1788</b>	<b>0.7513</b>	<b>0.9301</b>	<b>0.0474</b>	<b>0.7512</b>	<b>0.7986</b>	<b>0.0000</b>	<b>2,850.1419</b>	<b>2,850.1419</b>	<b>0.7843</b>	<b>0.0000</b>	<b>2,867.4358</b>

## NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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	70.18	44.10	-5.58	0.00	0.00	42.70	38.55	0.00	38.55	37.40	0.00	0.00	0.00	0.00	0.00	0.00



NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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	2.0000e-005	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.5000e-004	4.5000e-004	0.0000		4.8000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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>2.0000e-005</b>	<b>0.0000</b>	<b>2.1000e-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>4.5000e-004</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.8000e-004</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	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.4000e-004	2.4000e-004	0.0000		2.6000e-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
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>1.0000e-005</b>	<b>0.0000</b>	<b>1.2000e-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>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.6000e-004</b>

## NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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	50.00	0.00	42.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.67	46.67	0.00	0.00	45.83

### 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	Site Preparation at Portal Sites	Site Preparation	11/14/2018	4/2/2019	5	100	
2	Portal Excavation	Site Preparation	4/3/2019	8/20/2019	5	100	
3	Site Restoration	Site Preparation	8/21/2019	1/7/2020	5	100	
4	Pipe Installation	Building Construction	1/8/2020	5/26/2020	5	100	
5	Pipe Connections	Building Construction	5/27/2020	10/13/2020	5	100	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation at Portal Sites	Graders	1	8.00	187	0.41
Site Preparation at Portal Sites	Scrapers	1	8.00	367	0.48
Site Preparation at Portal Sites	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Portal Excavation	Excavators	1	8.00	158	0.38
Portal Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Portal Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Trenchers	1	8.00	78	0.50
Site Restoration	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipe Installation	Cranes	1	8.00	231	0.29
Pipe Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipe Installation	Welders	2	8.00	46	0.45
Pipe Connections	Other General Industrial Equipment	1	8.00	88	0.34

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation at Portal Sites	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Portal Excavation	5	14.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Restoration	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipe Installation	4	2.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipe Connections	1	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Site Preparation at Portal Sites - 2018**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.9327	23.9488	13.0381	0.0249		0.9773	0.9773		0.8991	0.8991		2,507.510 1	2,507.510 1	0.7806		2,527.025 7
<b>Total</b>	<b>1.9327</b>	<b>23.9488</b>	<b>13.0381</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.9773</b>	<b>0.9773</b>	<b>0.0000</b>	<b>0.8991</b>	<b>0.8991</b>		<b>2,507.510 1</b>	<b>2,507.510 1</b>	<b>0.7806</b>		<b>2,527.025 7</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.2 Site Preparation at Portal Sites - 2018**

**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	0.0471	0.0364	0.4026	1.1100e-003	0.1022	7.1000e-004	0.1029	0.0271	6.5000e-004	0.0278		110.5694	110.5694	3.6800e-003		110.6614
<b>Total</b>	<b>0.0471</b>	<b>0.0364</b>	<b>0.4026</b>	<b>1.1100e-003</b>	<b>0.1022</b>	<b>7.1000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.5000e-004</b>	<b>0.0278</b>		<b>110.5694</b>	<b>110.5694</b>	<b>3.6800e-003</b>		<b>110.6614</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6111	12.0796	13.9359	0.0249		0.5139	0.5139		0.5139	0.5139	0.0000	2,507.5101	2,507.5101	0.7806		2,527.0257
<b>Total</b>	<b>0.6111</b>	<b>12.0796</b>	<b>13.9359</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.5139</b>	<b>0.5139</b>	<b>0.0000</b>	<b>0.5139</b>	<b>0.5139</b>	<b>0.0000</b>	<b>2,507.5101</b>	<b>2,507.5101</b>	<b>0.7806</b>		<b>2,527.0257</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.2 Site Preparation at Portal Sites - 2018**

**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	0.0471	0.0364	0.4026	1.1100e-003	0.1022	7.1000e-004	0.1029	0.0271	6.5000e-004	0.0278		110.5694	110.5694	3.6800e-003		110.6614
<b>Total</b>	<b>0.0471</b>	<b>0.0364</b>	<b>0.4026</b>	<b>1.1100e-003</b>	<b>0.1022</b>	<b>7.1000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.5000e-004</b>	<b>0.0278</b>		<b>110.5694</b>	<b>110.5694</b>	<b>3.6800e-003</b>		<b>110.6614</b>

**3.2 Site Preparation at Portal Sites - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.7848	21.8308	12.2022	0.0249		0.8732	0.8732		0.8034	0.8034		2,464.9835	2,464.9835	0.7799		2,484.4809
<b>Total</b>	<b>1.7848</b>	<b>21.8308</b>	<b>12.2022</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.8732</b>	<b>0.8732</b>	<b>0.0000</b>	<b>0.8034</b>	<b>0.8034</b>		<b>2,464.9835</b>	<b>2,464.9835</b>	<b>0.7799</b>		<b>2,484.4809</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.2 Site Preparation at Portal Sites - 2019**

**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	0.0435	0.0326	0.3640	1.0800e-003	0.1022	7.0000e-004	0.1029	0.0271	6.5000e-004	0.0277		107.2356	107.2356	3.3300e-003		107.3190
<b>Total</b>	<b>0.0435</b>	<b>0.0326</b>	<b>0.3640</b>	<b>1.0800e-003</b>	<b>0.1022</b>	<b>7.0000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.5000e-004</b>	<b>0.0277</b>		<b>107.2356</b>	<b>107.2356</b>	<b>3.3300e-003</b>		<b>107.3190</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6111	12.0796	13.9359	0.0249		0.5139	0.5139		0.5139	0.5139	0.0000	2,464.9835	2,464.9835	0.7799		2,484.4809
<b>Total</b>	<b>0.6111</b>	<b>12.0796</b>	<b>13.9359</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.5139</b>	<b>0.5139</b>	<b>0.0000</b>	<b>0.5139</b>	<b>0.5139</b>	<b>0.0000</b>	<b>2,464.9835</b>	<b>2,464.9835</b>	<b>0.7799</b>		<b>2,484.4809</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.2 Site Preparation at Portal Sites - 2019**

**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	0.0435	0.0326	0.3640	1.0800e-003	0.1022	7.0000e-004	0.1029	0.0271	6.5000e-004	0.0277		107.2356	107.2356	3.3300e-003		107.3190
<b>Total</b>	<b>0.0435</b>	<b>0.0326</b>	<b>0.3640</b>	<b>1.0800e-003</b>	<b>0.1022</b>	<b>7.0000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.5000e-004</b>	<b>0.0277</b>		<b>107.2356</b>	<b>107.2356</b>	<b>3.3300e-003</b>		<b>107.3190</b>

**3.3 Portal Excavation - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6693	25.1551	16.8612	0.0272		1.4521	1.4521		1.3585	1.3585		2,662.4796	2,662.4796	0.6859		2,679.6276
<b>Total</b>	<b>2.6693</b>	<b>25.1551</b>	<b>16.8612</b>	<b>0.0272</b>	<b>0.0000</b>	<b>1.4521</b>	<b>1.4521</b>	<b>0.0000</b>	<b>1.3585</b>	<b>1.3585</b>		<b>2,662.4796</b>	<b>2,662.4796</b>	<b>0.6859</b>		<b>2,679.6276</b>



NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.3 Portal Excavation - 2019**

**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	0.0761	0.0570	0.6369	1.8800e-003	0.1788	1.2300e-003	0.1801	0.0474	1.1300e-003	0.0486		187.6623	187.6623	5.8400e-003		187.8082
<b>Total</b>	<b>0.0761</b>	<b>0.0570</b>	<b>0.6369</b>	<b>1.8800e-003</b>	<b>0.1788</b>	<b>1.2300e-003</b>	<b>0.1801</b>	<b>0.0474</b>	<b>1.1300e-003</b>	<b>0.0486</b>		<b>187.6623</b>	<b>187.6623</b>	<b>5.8400e-003</b>		<b>187.8082</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6350	13.3224	17.6622	0.0272		0.7501	0.7501		0.7501	0.7501	0.0000	2,662.4796	2,662.4796	0.6859		2,679.6276
<b>Total</b>	<b>0.6350</b>	<b>13.3224</b>	<b>17.6622</b>	<b>0.0272</b>	<b>0.0000</b>	<b>0.7501</b>	<b>0.7501</b>	<b>0.0000</b>	<b>0.7501</b>	<b>0.7501</b>	<b>0.0000</b>	<b>2,662.4796</b>	<b>2,662.4796</b>	<b>0.6859</b>		<b>2,679.6276</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.3 Portal Excavation - 2019**

**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	0.0761	0.0570	0.6369	1.8800e-003	0.1788	1.2300e-003	0.1801	0.0474	1.1300e-003	0.0486		187.6623	187.6623	5.8400e-003		187.8082
<b>Total</b>	<b>0.0761</b>	<b>0.0570</b>	<b>0.6369</b>	<b>1.8800e-003</b>	<b>0.1788</b>	<b>1.2300e-003</b>	<b>0.1801</b>	<b>0.0474</b>	<b>1.1300e-003</b>	<b>0.0486</b>		<b>187.6623</b>	<b>187.6623</b>	<b>5.8400e-003</b>		<b>187.8082</b>

**3.4 Site Restoration - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2328	2.3374	2.3027	3.1100e-003		0.1560	0.1560		0.1436	0.1436		307.5419	307.5419	0.0973		309.9744
<b>Total</b>	<b>0.2328</b>	<b>2.3374</b>	<b>2.3027</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1560</b>	<b>0.1560</b>	<b>0.0000</b>	<b>0.1436</b>	<b>0.1436</b>		<b>307.5419</b>	<b>307.5419</b>	<b>0.0973</b>		<b>309.9744</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.4 Site Restoration - 2019**

**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	0.0217	0.0163	0.1820	5.4000e-004	0.0511	3.5000e-004	0.0514	0.0136	3.2000e-004	0.0139		53.6178	53.6178	1.6700e-003		53.6595
<b>Total</b>	<b>0.0217</b>	<b>0.0163</b>	<b>0.1820</b>	<b>5.4000e-004</b>	<b>0.0511</b>	<b>3.5000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>53.6178</b>	<b>53.6178</b>	<b>1.6700e-003</b>		<b>53.6595</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0760	1.7344	2.3421	3.1100e-003		0.1215	0.1215		0.1215	0.1215	0.0000	307.5419	307.5419	0.0973		309.9744
<b>Total</b>	<b>0.0760</b>	<b>1.7344</b>	<b>2.3421</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>307.5419</b>	<b>307.5419</b>	<b>0.0973</b>		<b>309.9744</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.4 Site Restoration - 2019**

**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	0.0217	0.0163	0.1820	5.4000e-004	0.0511	3.5000e-004	0.0514	0.0136	3.2000e-004	0.0139		53.6178	53.6178	1.6700e-003		53.6595
<b>Total</b>	<b>0.0217</b>	<b>0.0163</b>	<b>0.1820</b>	<b>5.4000e-004</b>	<b>0.0511</b>	<b>3.5000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>53.6178</b>	<b>53.6178</b>	<b>1.6700e-003</b>		<b>53.6595</b>

**3.4 Site Restoration - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2095	2.1052	2.2797	3.1100e-003		0.1331	0.1331		0.1225	0.1225		300.7685	300.7685	0.0973		303.2004
<b>Total</b>	<b>0.2095</b>	<b>2.1052</b>	<b>2.2797</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1331</b>	<b>0.1331</b>	<b>0.0000</b>	<b>0.1225</b>	<b>0.1225</b>		<b>300.7685</b>	<b>300.7685</b>	<b>0.0973</b>		<b>303.2004</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.4 Site Restoration - 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	0.0203	0.0147	0.1668	5.2000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.2000e-004	0.0139		51.9247	51.9247	1.5100e-003		51.9624
<b>Total</b>	<b>0.0203</b>	<b>0.0147</b>	<b>0.1668</b>	<b>5.2000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>51.9247</b>	<b>51.9247</b>	<b>1.5100e-003</b>		<b>51.9624</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0760	1.7344	2.3421	3.1100e-003		0.1215	0.1215		0.1215	0.1215	0.0000	300.7685	300.7685	0.0973		303.2004
<b>Total</b>	<b>0.0760</b>	<b>1.7344</b>	<b>2.3421</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>300.7685</b>	<b>300.7685</b>	<b>0.0973</b>		<b>303.2004</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.4 Site Restoration - 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	0.0203	0.0147	0.1668	5.2000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.2000e-004	0.0139		51.9247	51.9247	1.5100e-003		51.9624
<b>Total</b>	<b>0.0203</b>	<b>0.0147</b>	<b>0.1668</b>	<b>5.2000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>51.9247</b>	<b>51.9247</b>	<b>1.5100e-003</b>		<b>51.9624</b>

**3.5 Pipe Installation - 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					
Off-Road	1.3471	10.6393	7.9291	0.0140		0.5292	0.5292		0.5007	0.5007		1,274.5136	1,274.5136	0.3393		1,282.9969
<b>Total</b>	<b>1.3471</b>	<b>10.6393</b>	<b>7.9291</b>	<b>0.0140</b>		<b>0.5292</b>	<b>0.5292</b>		<b>0.5007</b>	<b>0.5007</b>		<b>1,274.5136</b>	<b>1,274.5136</b>	<b>0.3393</b>		<b>1,282.9969</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.5 Pipe Installation - 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	7.0300e-003	0.2158	0.0547	5.1000e-004	0.0123	1.0000e-003	0.0133	3.5300e-003	9.6000e-004	4.4900e-003		54.3434	54.3434	4.1300e-003		54.4466
Worker	0.0102	7.3500e-003	0.0834	2.6000e-004	0.0256	1.7000e-004	0.0257	6.7700e-003	1.6000e-004	6.9300e-003		25.9623	25.9623	7.6000e-004		25.9812
<b>Total</b>	<b>0.0172</b>	<b>0.2231</b>	<b>0.1381</b>	<b>7.7000e-004</b>	<b>0.0378</b>	<b>1.1700e-003</b>	<b>0.0390</b>	<b>0.0103</b>	<b>1.1200e-003</b>	<b>0.0114</b>		<b>80.3058</b>	<b>80.3058</b>	<b>4.8900e-003</b>		<b>80.4278</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	0.4295	7.8562	8.4077	0.0140		0.4300	0.4300		0.4300	0.4300	0.0000	1,274.5136	1,274.5136	0.3393		1,282.9969
<b>Total</b>	<b>0.4295</b>	<b>7.8562</b>	<b>8.4077</b>	<b>0.0140</b>		<b>0.4300</b>	<b>0.4300</b>		<b>0.4300</b>	<b>0.4300</b>	<b>0.0000</b>	<b>1,274.5136</b>	<b>1,274.5136</b>	<b>0.3393</b>		<b>1,282.9969</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.5 Pipe Installation - 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	7.0300e-003	0.2158	0.0547	5.1000e-004	0.0123	1.0000e-003	0.0133	3.5300e-003	9.6000e-004	4.4900e-003		54.3434	54.3434	4.1300e-003		54.4466
Worker	0.0102	7.3500e-003	0.0834	2.6000e-004	0.0256	1.7000e-004	0.0257	6.7700e-003	1.6000e-004	6.9300e-003		25.9623	25.9623	7.6000e-004		25.9812
<b>Total</b>	<b>0.0172</b>	<b>0.2231</b>	<b>0.1381</b>	<b>7.7000e-004</b>	<b>0.0378</b>	<b>1.1700e-003</b>	<b>0.0390</b>	<b>0.0103</b>	<b>1.1200e-003</b>	<b>0.0114</b>		<b>80.3058</b>	<b>80.3058</b>	<b>4.8900e-003</b>		<b>80.4278</b>

**3.6 Pipe Connections - 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					
Off-Road	0.2353	2.1429	1.9898	2.5600e-003		0.1561	0.1561		0.1436	0.1436		248.0182	248.0182	0.0802		250.0235
<b>Total</b>	<b>0.2353</b>	<b>2.1429</b>	<b>1.9898</b>	<b>2.5600e-003</b>		<b>0.1561</b>	<b>0.1561</b>		<b>0.1436</b>	<b>0.1436</b>		<b>248.0182</b>	<b>248.0182</b>	<b>0.0802</b>		<b>250.0235</b>



NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**3.6 Pipe Connections - 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	0.0102	7.3500e-003	0.0834	2.6000e-004	0.0256	1.7000e-004	0.0257	6.7700e-003	1.6000e-004	6.9300e-003		25.9623	25.9623	7.6000e-004		25.9812
<b>Total</b>	<b>0.0102</b>	<b>7.3500e-003</b>	<b>0.0834</b>	<b>2.6000e-004</b>	<b>0.0256</b>	<b>1.7000e-004</b>	<b>0.0257</b>	<b>6.7700e-003</b>	<b>1.6000e-004</b>	<b>6.9300e-003</b>		<b>25.9623</b>	<b>25.9623</b>	<b>7.6000e-004</b>		<b>25.9812</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	0.0633	1.4459	1.9525	2.5600e-003		0.1013	0.1013		0.1013	0.1013	0.0000	248.0182	248.0182	0.0802		250.0235
<b>Total</b>	<b>0.0633</b>	<b>1.4459</b>	<b>1.9525</b>	<b>2.5600e-003</b>		<b>0.1013</b>	<b>0.1013</b>		<b>0.1013</b>	<b>0.1013</b>	<b>0.0000</b>	<b>248.0182</b>	<b>248.0182</b>	<b>0.0802</b>		<b>250.0235</b>

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**3.6 Pipe Connections - 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	0.0102	7.3500e-003	0.0834	2.6000e-004	0.0256	1.7000e-004	0.0257	6.7700e-003	1.6000e-004	6.9300e-003		25.9623	25.9623	7.6000e-004		25.9812
<b>Total</b>	<b>0.0102</b>	<b>7.3500e-003</b>	<b>0.0834</b>	<b>2.6000e-004</b>	<b>0.0256</b>	<b>1.7000e-004</b>	<b>0.0257</b>	<b>6.7700e-003</b>	<b>1.6000e-004</b>	<b>6.9300e-003</b>		<b>25.9623</b>	<b>25.9623</b>	<b>7.6000e-004</b>		<b>25.9812</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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	
<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>	

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**5.2 Energy by Land Use - Natural Gas**

**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					
General Light Industry	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**

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- No Hearths Installed
- Use Low VOC Cleaning Supplies

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.4000e-004	2.4000e-004	0.0000		2.6000e-004
Unmitigated	2.0000e-005	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.5000e-004	4.5000e-004	0.0000		4.8000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.5000e-004	4.5000e-004	0.0000		4.8000e-004
<b>Total</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>4.5000e-004</b>	<b>4.5000e-004</b>	<b>0.0000</b>		<b>4.8000e-004</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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
Landscaping	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.4000e-004	2.4000e-004	0.0000		2.6000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>		<b>2.6000e-004</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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Summer

**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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NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**NCPWF Pipeline-Trenchless**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.06	1000sqft	0.05	2,057.63	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

On-road Fugitive Dust - CalEEMod Defaults.

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - No mobile sources during operation.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No coatings used in this project phase.

Landscape Equipment - There is no landscaping for this project.

Energy Use - No energy use for this project.

Water And Wastewater - No water use for this project.

Solid Waste - No solid waste for this project.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings for this project. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.



NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1.00	100.00
tblConstructionPhase	NumDays	1.00	100.00
tblConstructionPhase	NumDays	1.00	100.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	BuildingSpaceSquareFeet	2,060.00	2,057.63
tblLandUse	LandUseSquareFeet	2,060.00	2,057.63
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Pipe Connections
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Site Preparation at Portal Sites
tblOffRoadEquipment	PhaseName		Portal Excavation
tblOffRoadEquipment	PhaseName		Pipe Installation
tblOffRoadEquipment	UsageHours	4.00	8.00

## NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

tblProjectCharacteristics	OperationalYear	2018	2020
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	2.55	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	2.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	476,375.00	0.00

## 2.0 Emissions Summary

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NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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					
2018	1.9871	23.9896	13.4123	0.0260	0.1022	0.9780	1.0802	0.0271	0.8998	0.9269	0.0000	2,611.2703	2,611.2703	0.7841	0.0000	2,630.8725
2019	2.7574	25.2190	17.4507	0.0290	0.1788	1.4533	1.6321	0.0474	1.3596	1.4070	0.0000	2,838.5754	2,838.5754	0.7830	0.0000	2,855.8605
2020	1.3663	10.8628	8.0671	0.0147	0.0511	0.5304	0.5682	0.0136	0.5019	0.5122	0.0000	1,351.7033	1,351.7033	0.3444	0.0000	1,360.3143
<b>Maximum</b>	<b>2.7574</b>	<b>25.2190</b>	<b>17.4507</b>	<b>0.0290</b>	<b>0.1788</b>	<b>1.4533</b>	<b>1.6321</b>	<b>0.0474</b>	<b>1.3596</b>	<b>1.4070</b>	<b>0.0000</b>	<b>2,838.5754</b>	<b>2,838.5754</b>	<b>0.7841</b>	<b>0.0000</b>	<b>2,855.8605</b>

**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					
2018	0.6655	12.1205	14.3100	0.0260	0.1022	0.5147	0.6168	0.0271	0.5146	0.5417	0.0000	2,611.2703	2,611.2703	0.7841	0.0000	2,630.8725
2019	0.7231	13.3864	18.2517	0.0290	0.1788	0.7513	0.9301	0.0474	0.7512	0.7986	0.0000	2,838.5754	2,838.5754	0.7830	0.0000	2,855.8605
2020	0.4487	8.0797	8.5457	0.0147	0.0511	0.4312	0.4689	0.0136	0.4311	0.4414	0.0000	1,351.7033	1,351.7033	0.3444	0.0000	1,360.3143
<b>Maximum</b>	<b>0.7231</b>	<b>13.3864</b>	<b>18.2517</b>	<b>0.0290</b>	<b>0.1788</b>	<b>0.7513</b>	<b>0.9301</b>	<b>0.0474</b>	<b>0.7512</b>	<b>0.7986</b>	<b>0.0000</b>	<b>2,838.5754</b>	<b>2,838.5754</b>	<b>0.7841</b>	<b>0.0000</b>	<b>2,855.8605</b>

## NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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	69.93	44.09	-5.59	0.00	0.00	42.70	38.55	0.00	38.55	37.40	0.00	0.00	0.00	0.00	0.00	0.00

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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	2.0000e-005	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.5000e-004	4.5000e-004	0.0000		4.8000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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>2.0000e-005</b>	<b>0.0000</b>	<b>2.1000e-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>4.5000e-004</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.8000e-004</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	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.4000e-004	2.4000e-004	0.0000		2.6000e-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
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>1.0000e-005</b>	<b>0.0000</b>	<b>1.2000e-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>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.6000e-004</b>



## NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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	50.00	0.00	42.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.67	46.67	0.00	0.00	45.83

### 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	Site Preparation at Portal Sites	Site Preparation	11/14/2018	4/2/2019	5	100	
2	Portal Excavation	Site Preparation	4/3/2019	8/20/2019	5	100	
3	Site Restoration	Site Preparation	8/21/2019	1/7/2020	5	100	
4	Pipe Installation	Building Construction	1/8/2020	5/26/2020	5	100	
5	Pipe Connections	Building Construction	5/27/2020	10/13/2020	5	100	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation at Portal Sites	Graders	1	8.00	187	0.41
Site Preparation at Portal Sites	Scrapers	1	8.00	367	0.48
Site Preparation at Portal Sites	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Crushing/Proc. Equipment	1	8.00	85	0.78
Portal Excavation	Excavators	1	8.00	158	0.38
Portal Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Portal Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Portal Excavation	Trenchers	1	8.00	78	0.50
Site Restoration	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipe Installation	Cranes	1	8.00	231	0.29
Pipe Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pipe Installation	Welders	2	8.00	46	0.45
Pipe Connections	Other General Industrial Equipment	1	8.00	88	0.34

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation at Portal Sites	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Portal Excavation	5	14.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Restoration	1	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipe Installation	4	2.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Pipe Connections	1	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Site Preparation at Portal Sites - 2018**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.9327	23.9488	13.0381	0.0249		0.9773	0.9773		0.8991	0.8991		2,507.510 1	2,507.510 1	0.7806		2,527.025 7
<b>Total</b>	<b>1.9327</b>	<b>23.9488</b>	<b>13.0381</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.9773</b>	<b>0.9773</b>	<b>0.0000</b>	<b>0.8991</b>	<b>0.8991</b>		<b>2,507.510 1</b>	<b>2,507.510 1</b>	<b>0.7806</b>		<b>2,527.025 7</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.2 Site Preparation at Portal Sites - 2018**

**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	0.0544	0.0408	0.3742	1.0400e-003	0.1022	7.1000e-004	0.1029	0.0271	6.5000e-004	0.0278		103.7601	103.7601	3.4700e-003		103.8468
<b>Total</b>	<b>0.0544</b>	<b>0.0408</b>	<b>0.3742</b>	<b>1.0400e-003</b>	<b>0.1022</b>	<b>7.1000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.5000e-004</b>	<b>0.0278</b>		<b>103.7601</b>	<b>103.7601</b>	<b>3.4700e-003</b>		<b>103.8468</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6111	12.0796	13.9359	0.0249		0.5139	0.5139		0.5139	0.5139	0.0000	2,507.5101	2,507.5101	0.7806		2,527.0257
<b>Total</b>	<b>0.6111</b>	<b>12.0796</b>	<b>13.9359</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.5139</b>	<b>0.5139</b>	<b>0.0000</b>	<b>0.5139</b>	<b>0.5139</b>	<b>0.0000</b>	<b>2,507.5101</b>	<b>2,507.5101</b>	<b>0.7806</b>		<b>2,527.0257</b>

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**3.2 Site Preparation at Portal Sites - 2018**

**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	0.0544	0.0408	0.3742	1.0400e-003	0.1022	7.1000e-004	0.1029	0.0271	6.5000e-004	0.0278		103.7601	103.7601	3.4700e-003		103.8468
<b>Total</b>	<b>0.0544</b>	<b>0.0408</b>	<b>0.3742</b>	<b>1.0400e-003</b>	<b>0.1022</b>	<b>7.1000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.5000e-004</b>	<b>0.0278</b>		<b>103.7601</b>	<b>103.7601</b>	<b>3.4700e-003</b>		<b>103.8468</b>

**3.2 Site Preparation at Portal Sites - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.7848	21.8308	12.2022	0.0249		0.8732	0.8732		0.8034	0.8034		2,464.9835	2,464.9835	0.7799		2,484.4809
<b>Total</b>	<b>1.7848</b>	<b>21.8308</b>	<b>12.2022</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.8732</b>	<b>0.8732</b>	<b>0.0000</b>	<b>0.8034</b>	<b>0.8034</b>		<b>2,464.9835</b>	<b>2,464.9835</b>	<b>0.7799</b>		<b>2,484.4809</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.2 Site Preparation at Portal Sites - 2019**

**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	0.0503	0.0365	0.3369	1.0100e-003	0.1022	7.0000e-004	0.1029	0.0271	6.5000e-004	0.0277		100.6262	100.6262	3.1300e-003		100.7045
<b>Total</b>	<b>0.0503</b>	<b>0.0365</b>	<b>0.3369</b>	<b>1.0100e-003</b>	<b>0.1022</b>	<b>7.0000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.5000e-004</b>	<b>0.0277</b>		<b>100.6262</b>	<b>100.6262</b>	<b>3.1300e-003</b>		<b>100.7045</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6111	12.0796	13.9359	0.0249		0.5139	0.5139		0.5139	0.5139	0.0000	2,464.9835	2,464.9835	0.7799		2,484.4809
<b>Total</b>	<b>0.6111</b>	<b>12.0796</b>	<b>13.9359</b>	<b>0.0249</b>	<b>0.0000</b>	<b>0.5139</b>	<b>0.5139</b>	<b>0.0000</b>	<b>0.5139</b>	<b>0.5139</b>	<b>0.0000</b>	<b>2,464.9835</b>	<b>2,464.9835</b>	<b>0.7799</b>		<b>2,484.4809</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.2 Site Preparation at Portal Sites - 2019**

**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	0.0503	0.0365	0.3369	1.0100e-003	0.1022	7.0000e-004	0.1029	0.0271	6.5000e-004	0.0277		100.6262	100.6262	3.1300e-003		100.7045
<b>Total</b>	<b>0.0503</b>	<b>0.0365</b>	<b>0.3369</b>	<b>1.0100e-003</b>	<b>0.1022</b>	<b>7.0000e-004</b>	<b>0.1029</b>	<b>0.0271</b>	<b>6.5000e-004</b>	<b>0.0277</b>		<b>100.6262</b>	<b>100.6262</b>	<b>3.1300e-003</b>		<b>100.7045</b>

**3.3 Portal Excavation - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6693	25.1551	16.8612	0.0272		1.4521	1.4521		1.3585	1.3585		2,662.4796	2,662.4796	0.6859		2,679.6276
<b>Total</b>	<b>2.6693</b>	<b>25.1551</b>	<b>16.8612</b>	<b>0.0272</b>	<b>0.0000</b>	<b>1.4521</b>	<b>1.4521</b>	<b>0.0000</b>	<b>1.3585</b>	<b>1.3585</b>		<b>2,662.4796</b>	<b>2,662.4796</b>	<b>0.6859</b>		<b>2,679.6276</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.3 Portal Excavation - 2019**

**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	0.0881	0.0639	0.5895	1.7700e-003	0.1788	1.2300e-003	0.1801	0.0474	1.1300e-003	0.0486		176.0959	176.0959	5.4800e-003		176.2329
<b>Total</b>	<b>0.0881</b>	<b>0.0639</b>	<b>0.5895</b>	<b>1.7700e-003</b>	<b>0.1788</b>	<b>1.2300e-003</b>	<b>0.1801</b>	<b>0.0474</b>	<b>1.1300e-003</b>	<b>0.0486</b>		<b>176.0959</b>	<b>176.0959</b>	<b>5.4800e-003</b>		<b>176.2329</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6350	13.3224	17.6622	0.0272		0.7501	0.7501		0.7501	0.7501	0.0000	2,662.4796	2,662.4796	0.6859		2,679.6276
<b>Total</b>	<b>0.6350</b>	<b>13.3224</b>	<b>17.6622</b>	<b>0.0272</b>	<b>0.0000</b>	<b>0.7501</b>	<b>0.7501</b>	<b>0.0000</b>	<b>0.7501</b>	<b>0.7501</b>	<b>0.0000</b>	<b>2,662.4796</b>	<b>2,662.4796</b>	<b>0.6859</b>		<b>2,679.6276</b>



NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.3 Portal Excavation - 2019**

**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	0.0881	0.0639	0.5895	1.7700e-003	0.1788	1.2300e-003	0.1801	0.0474	1.1300e-003	0.0486		176.0959	176.0959	5.4800e-003		176.2329
<b>Total</b>	<b>0.0881</b>	<b>0.0639</b>	<b>0.5895</b>	<b>1.7700e-003</b>	<b>0.1788</b>	<b>1.2300e-003</b>	<b>0.1801</b>	<b>0.0474</b>	<b>1.1300e-003</b>	<b>0.0486</b>		<b>176.0959</b>	<b>176.0959</b>	<b>5.4800e-003</b>		<b>176.2329</b>

**3.4 Site Restoration - 2019**

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2328	2.3374	2.3027	3.1100e-003		0.1560	0.1560		0.1436	0.1436		307.5419	307.5419	0.0973		309.9744
<b>Total</b>	<b>0.2328</b>	<b>2.3374</b>	<b>2.3027</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1560</b>	<b>0.1560</b>	<b>0.0000</b>	<b>0.1436</b>	<b>0.1436</b>		<b>307.5419</b>	<b>307.5419</b>	<b>0.0973</b>		<b>309.9744</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.4 Site Restoration - 2019**

**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	0.0252	0.0183	0.1684	5.0000e-004	0.0511	3.5000e-004	0.0514	0.0136	3.2000e-004	0.0139		50.3131	50.3131	1.5700e-003		50.3523
<b>Total</b>	<b>0.0252</b>	<b>0.0183</b>	<b>0.1684</b>	<b>5.0000e-004</b>	<b>0.0511</b>	<b>3.5000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>50.3131</b>	<b>50.3131</b>	<b>1.5700e-003</b>		<b>50.3523</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0760	1.7344	2.3421	3.1100e-003		0.1215	0.1215		0.1215	0.1215	0.0000	307.5419	307.5419	0.0973		309.9744
<b>Total</b>	<b>0.0760</b>	<b>1.7344</b>	<b>2.3421</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>307.5419</b>	<b>307.5419</b>	<b>0.0973</b>		<b>309.9744</b>

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**3.4 Site Restoration - 2019**

**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	0.0252	0.0183	0.1684	5.0000e-004	0.0511	3.5000e-004	0.0514	0.0136	3.2000e-004	0.0139		50.3131	50.3131	1.5700e-003		50.3523
<b>Total</b>	<b>0.0252</b>	<b>0.0183</b>	<b>0.1684</b>	<b>5.0000e-004</b>	<b>0.0511</b>	<b>3.5000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>50.3131</b>	<b>50.3131</b>	<b>1.5700e-003</b>		<b>50.3523</b>

**3.4 Site Restoration - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2095	2.1052	2.2797	3.1100e-003		0.1331	0.1331		0.1225	0.1225		300.7685	300.7685	0.0973		303.2004
<b>Total</b>	<b>0.2095</b>	<b>2.1052</b>	<b>2.2797</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1331</b>	<b>0.1331</b>	<b>0.0000</b>	<b>0.1225</b>	<b>0.1225</b>		<b>300.7685</b>	<b>300.7685</b>	<b>0.0973</b>		<b>303.2004</b>

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**3.4 Site Restoration - 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	0.0236	0.0165	0.1541	4.9000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.2000e-004	0.0139		48.7236	48.7236	1.4200e-003		48.7590
<b>Total</b>	<b>0.0236</b>	<b>0.0165</b>	<b>0.1541</b>	<b>4.9000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>48.7236</b>	<b>48.7236</b>	<b>1.4200e-003</b>		<b>48.7590</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0760	1.7344	2.3421	3.1100e-003		0.1215	0.1215		0.1215	0.1215	0.0000	300.7685	300.7685	0.0973		303.2004
<b>Total</b>	<b>0.0760</b>	<b>1.7344</b>	<b>2.3421</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>0.1215</b>	<b>0.1215</b>	<b>0.0000</b>	<b>300.7685</b>	<b>300.7685</b>	<b>0.0973</b>		<b>303.2004</b>

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**3.4 Site Restoration - 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	0.0236	0.0165	0.1541	4.9000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.2000e-004	0.0139		48.7236	48.7236	1.4200e-003		48.7590
<b>Total</b>	<b>0.0236</b>	<b>0.0165</b>	<b>0.1541</b>	<b>4.9000e-004</b>	<b>0.0511</b>	<b>3.4000e-004</b>	<b>0.0514</b>	<b>0.0136</b>	<b>3.2000e-004</b>	<b>0.0139</b>		<b>48.7236</b>	<b>48.7236</b>	<b>1.4200e-003</b>		<b>48.7590</b>

**3.5 Pipe Installation - 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					
Off-Road	1.3471	10.6393	7.9291	0.0140		0.5292	0.5292		0.5007	0.5007		1,274.5136	1,274.5136	0.3393		1,282.9969
<b>Total</b>	<b>1.3471</b>	<b>10.6393</b>	<b>7.9291</b>	<b>0.0140</b>		<b>0.5292</b>	<b>0.5292</b>		<b>0.5007</b>	<b>0.5007</b>		<b>1,274.5136</b>	<b>1,274.5136</b>	<b>0.3393</b>		<b>1,282.9969</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.5 Pipe Installation - 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	7.3800e-003	0.2153	0.0610	4.9000e-004	0.0123	1.0300e-003	0.0133	3.5300e-003	9.8000e-004	4.5100e-003		52.8279	52.8279	4.4000e-003		52.9379
Worker	0.0118	8.2500e-003	0.0770	2.4000e-004	0.0256	1.7000e-004	0.0257	6.7700e-003	1.6000e-004	6.9300e-003		24.3618	24.3618	7.1000e-004		24.3795
<b>Total</b>	<b>0.0192</b>	<b>0.2235</b>	<b>0.1380</b>	<b>7.3000e-004</b>	<b>0.0378</b>	<b>1.2000e-003</b>	<b>0.0390</b>	<b>0.0103</b>	<b>1.1400e-003</b>	<b>0.0114</b>		<b>77.1897</b>	<b>77.1897</b>	<b>5.1100e-003</b>		<b>77.3174</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	0.4295	7.8562	8.4077	0.0140		0.4300	0.4300		0.4300	0.4300	0.0000	1,274.5136	1,274.5136	0.3393		1,282.9969
<b>Total</b>	<b>0.4295</b>	<b>7.8562</b>	<b>8.4077</b>	<b>0.0140</b>		<b>0.4300</b>	<b>0.4300</b>		<b>0.4300</b>	<b>0.4300</b>	<b>0.0000</b>	<b>1,274.5136</b>	<b>1,274.5136</b>	<b>0.3393</b>		<b>1,282.9969</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.5 Pipe Installation - 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	7.3800e-003	0.2153	0.0610	4.9000e-004	0.0123	1.0300e-003	0.0133	3.5300e-003	9.8000e-004	4.5100e-003		52.8279	52.8279	4.4000e-003		52.9379
Worker	0.0118	8.2500e-003	0.0770	2.4000e-004	0.0256	1.7000e-004	0.0257	6.7700e-003	1.6000e-004	6.9300e-003		24.3618	24.3618	7.1000e-004		24.3795
<b>Total</b>	<b>0.0192</b>	<b>0.2235</b>	<b>0.1380</b>	<b>7.3000e-004</b>	<b>0.0378</b>	<b>1.2000e-003</b>	<b>0.0390</b>	<b>0.0103</b>	<b>1.1400e-003</b>	<b>0.0114</b>		<b>77.1897</b>	<b>77.1897</b>	<b>5.1100e-003</b>		<b>77.3174</b>

**3.6 Pipe Connections - 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					
Off-Road	0.2353	2.1429	1.9898	2.5600e-003		0.1561	0.1561		0.1436	0.1436		248.0182	248.0182	0.0802		250.0235
<b>Total</b>	<b>0.2353</b>	<b>2.1429</b>	<b>1.9898</b>	<b>2.5600e-003</b>		<b>0.1561</b>	<b>0.1561</b>		<b>0.1436</b>	<b>0.1436</b>		<b>248.0182</b>	<b>248.0182</b>	<b>0.0802</b>		<b>250.0235</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.6 Pipe Connections - 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	0.0118	8.2500e-003	0.0770	2.4000e-004	0.0256	1.7000e-004	0.0257	6.7700e-003	1.6000e-004	6.9300e-003		24.3618	24.3618	7.1000e-004		24.3795
<b>Total</b>	<b>0.0118</b>	<b>8.2500e-003</b>	<b>0.0770</b>	<b>2.4000e-004</b>	<b>0.0256</b>	<b>1.7000e-004</b>	<b>0.0257</b>	<b>6.7700e-003</b>	<b>1.6000e-004</b>	<b>6.9300e-003</b>		<b>24.3618</b>	<b>24.3618</b>	<b>7.1000e-004</b>		<b>24.3795</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	0.0633	1.4459	1.9525	2.5600e-003		0.1013	0.1013		0.1013	0.1013	0.0000	248.0182	248.0182	0.0802		250.0235
<b>Total</b>	<b>0.0633</b>	<b>1.4459</b>	<b>1.9525</b>	<b>2.5600e-003</b>		<b>0.1013</b>	<b>0.1013</b>		<b>0.1013</b>	<b>0.1013</b>	<b>0.0000</b>	<b>248.0182</b>	<b>248.0182</b>	<b>0.0802</b>		<b>250.0235</b>



NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**3.6 Pipe Connections - 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	0.0118	8.2500e-003	0.0770	2.4000e-004	0.0256	1.7000e-004	0.0257	6.7700e-003	1.6000e-004	6.9300e-003		24.3618	24.3618	7.1000e-004		24.3795
<b>Total</b>	<b>0.0118</b>	<b>8.2500e-003</b>	<b>0.0770</b>	<b>2.4000e-004</b>	<b>0.0256</b>	<b>1.7000e-004</b>	<b>0.0257</b>	<b>6.7700e-003</b>	<b>1.6000e-004</b>	<b>6.9300e-003</b>		<b>24.3618</b>	<b>24.3618</b>	<b>7.1000e-004</b>		<b>24.3795</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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	0.0000	0.0000	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
General Light Industry	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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**5.2 Energy by Land Use - Natural Gas**

**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					
General Light Industry	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**

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- No Hearths Installed
- Use Low VOC Cleaning Supplies

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.4000e-004	2.4000e-004	0.0000		2.6000e-004
Unmitigated	2.0000e-005	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.5000e-004	4.5000e-004	0.0000		4.8000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.5000e-004	4.5000e-004	0.0000		4.8000e-004
<b>Total</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>4.5000e-004</b>	<b>4.5000e-004</b>	<b>0.0000</b>		<b>4.8000e-004</b>

NCPWF Pipeline-Trenchless - San Diego County APCD Air District, 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.4000e-004	2.4000e-004	0.0000		2.6000e-004
<b>Total</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>		<b>2.6000e-004</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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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NCPWF Pipeline-Trenchless - San Diego County APCD Air District, Winter

**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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NCWRP Expansion - San Diego County APCD Air District, Annual

**NCWRP Expansion**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	241.03	1000sqft	5.53	241,034.00	49

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**



NCWRP Expansion - San Diego County APCD Air District, Annual

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description.

Construction Phase - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Grading - See Section 7.1.2 for Construction Details.

Demolition - No demolition of structures.

Trips and VMT - See Section 7.1.2 for Construction Details.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1.

Vehicle Trips - Based on the traffic information study.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Woodstoves -

Consumer Products -

Area Coating - In accordance with SDAPCD Rule 67.0.1.

Landscape Equipment -

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on information provided by the City.

Solid Waste - EPA waste generation of 4.46 lb/person/day.

Construction Off-road Equipment Mitigation - Per MM-AQ-1, all construction equipment must be at least Tier 3.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1.



NCWRP Expansion - San Diego County APCD Air District, Annual

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	107.00
tblConstructionPhase	NumDays	230.00	428.00
tblConstructionPhase	NumDays	20.00	107.00
tblConstructionPhase	NumDays	20.00	150.00
tblConstructionPhase	NumDays	20.00	107.00
tblConstructionPhase	PhaseEndDate	9/30/2018	12/6/2021
tblConstructionPhase	PhaseEndDate	9/30/2018	5/14/2021
tblConstructionPhase	PhaseEndDate	9/30/2018	2/26/2019
tblConstructionPhase	PhaseEndDate	9/30/2018	9/24/2019
tblConstructionPhase	PhaseEndDate	9/30/2018	12/6/2021
tblConstructionPhase	PhaseStartDate	10/1/2018	7/9/2021
tblConstructionPhase	PhaseStartDate	10/1/2018	9/25/2019
tblConstructionPhase	PhaseStartDate	10/1/2018	2/27/2019
tblConstructionPhase	PhaseStartDate	10/1/2018	7/9/2021
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	75.00	0.00
tblGrading	MaterialExported	0.00	1,644.00
tblLandUse	Population	0.00	49.00

NCWRP Expansion - San Diego County APCD Air District, Annual

tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblSolidWaste	SolidWasteGenerationRate	298.88	8.83

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tblTripsAndVMT	HaulingTripNumber	206.00	1,009.00
tblTripsAndVMT	WorkerTripNumber	101.00	102.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	28.00	16.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	11.70
tblVehicleTrips	CNW_TTP	13.00	100.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	0.35
tblVehicleTrips	SU_TR	0.68	0.10
tblVehicleTrips	WD_TR	6.97	0.10
tblWater	IndoorWaterUseRate	55,738,187.50	312,000.00

## 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					
2018	0.1250	1.2664	0.7532	1.3300e-003	4.2300e-003	0.0640	0.0682	1.1300e-003	0.0596	0.0607	0.0000	119.9844	119.9844	0.0321	0.0000	120.7863
2019	0.4234	4.2925	2.8428	5.8400e-003	0.5106	0.2038	0.7144	0.2642	0.1899	0.4541	0.0000	523.5068	523.5068	0.1204	0.0000	526.5171
2020	0.3724	3.2921	2.8030	6.4000e-003	0.1419	0.1541	0.2960	0.0385	0.1472	0.1857	0.0000	568.2134	568.2134	0.0763	0.0000	570.1206
2021	1.3322	1.9430	1.8239	3.8600e-003	0.0675	0.0898	0.1572	0.0182	0.0849	0.1031	0.0000	340.8575	340.8575	0.0615	0.0000	342.3938
<b>Maximum</b>	<b>1.3322</b>	<b>4.2925</b>	<b>2.8428</b>	<b>6.4000e-003</b>	<b>0.5106</b>	<b>0.2038</b>	<b>0.7144</b>	<b>0.2642</b>	<b>0.1899</b>	<b>0.4541</b>	<b>0.0000</b>	<b>568.2134</b>	<b>568.2134</b>	<b>0.1204</b>	<b>0.0000</b>	<b>570.1206</b>

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**2.1 Overall Construction**

**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					
2018	0.0486	0.7467	0.8288	1.3300e-003	4.2300e-003	0.0361	0.0403	1.1300e-003	0.0352	0.0364	0.0000	119.9843	119.9843	0.0321	0.0000	120.7862
2019	0.2441	3.2311	2.9549	5.8400e-003	0.2621	0.1500	0.4121	0.1277	0.1439	0.2716	0.0000	523.5063	523.5063	0.1204	0.0000	526.5166
2020	0.2506	2.8336	2.8922	6.4000e-003	0.1419	0.1389	0.2808	0.0385	0.1346	0.1731	0.0000	568.2130	568.2130	0.0763	0.0000	570.1203
2021	1.2504	1.6290	1.9528	3.8600e-003	0.0675	0.0802	0.1476	0.0182	0.0780	0.0962	0.0000	340.8572	340.8572	0.0615	0.0000	342.3935
<b>Maximum</b>	<b>1.2504</b>	<b>3.2311</b>	<b>2.9549</b>	<b>6.4000e-003</b>	<b>0.2621</b>	<b>0.1500</b>	<b>0.4121</b>	<b>0.1277</b>	<b>0.1439</b>	<b>0.2716</b>	<b>0.0000</b>	<b>568.2130</b>	<b>568.2130</b>	<b>0.1204</b>	<b>0.0000</b>	<b>570.1203</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>20.39</b>	<b>21.81</b>	<b>-4.93</b>	<b>0.00</b>	<b>34.31</b>	<b>20.82</b>	<b>28.73</b>	<b>42.40</b>	<b>18.63</b>	<b>28.16</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2018	12-31-2018	1.3857	0.7921
2	1-1-2019	3-31-2019	1.2477	0.8166
3	4-1-2019	6-30-2019	1.2268	0.9125
4	7-1-2019	9-30-2019	1.2249	0.9159
5	10-1-2019	12-31-2019	1.0080	0.8239
6	1-1-2020	3-31-2020	0.9093	0.7653
7	4-1-2020	6-30-2020	0.9065	0.7626
8	7-1-2020	9-30-2020	0.9165	0.7710

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9	10-1-2020	12-31-2020	0.9192	0.7737
10	1-1-2021	3-31-2021	0.8173	0.7103
11	4-1-2021	6-30-2021	0.3985	0.3461
12	7-1-2021	9-30-2021	1.1520	1.0196
		Highest	1.3857	1.0196

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	1.0533	2.0000e-005	2.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3100e-003	4.3100e-003	1.0000e-005	0.0000	4.6000e-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	0.0000
Mobile	0.0131	0.0632	0.1785	6.2000e-004	0.0524	6.1000e-004	0.0530	0.0140	5.8000e-004	0.0146	0.0000	56.8899	56.8899	2.9500e-003	0.0000	56.9636
Waste						0.0000	0.0000		0.0000	0.0000	1.7924	0.0000	1.7924	0.1059	0.0000	4.4406
Water						0.0000	0.0000		0.0000	0.0000	0.0990	1.3277	1.4267	0.0102	2.5000e-004	1.7570
<b>Total</b>	<b>1.0663</b>	<b>0.0632</b>	<b>0.1807</b>	<b>6.2000e-004</b>	<b>0.0524</b>	<b>6.2000e-004</b>	<b>0.0530</b>	<b>0.0140</b>	<b>5.9000e-004</b>	<b>0.0146</b>	<b>1.8914</b>	<b>58.2219</b>	<b>60.1133</b>	<b>0.1191</b>	<b>2.5000e-004</b>	<b>63.1658</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	1.0533	2.0000e-005	2.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3100e-003	4.3100e-003	1.0000e-005	0.0000	4.6000e-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	0.0000
Mobile	0.0131	0.0632	0.1785	6.2000e-004	0.0524	6.1000e-004	0.0530	0.0140	5.8000e-004	0.0146	0.0000	56.8899	56.8899	2.9500e-003	0.0000	56.9636
Waste						0.0000	0.0000		0.0000	0.0000	1.7924	0.0000	1.7924	0.1059	0.0000	4.4406
Water						0.0000	0.0000		0.0000	0.0000	0.0990	1.3277	1.4267	0.0102	2.5000e-004	1.7570
<b>Total</b>	<b>1.0663</b>	<b>0.0632</b>	<b>0.1807</b>	<b>6.2000e-004</b>	<b>0.0524</b>	<b>6.2000e-004</b>	<b>0.0530</b>	<b>0.0140</b>	<b>5.9000e-004</b>	<b>0.0146</b>	<b>1.8914</b>	<b>58.2219</b>	<b>60.1133</b>	<b>0.1191</b>	<b>2.5000e-004</b>	<b>63.1658</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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2018	2/26/2019	5	107	
2	Grading	Grading	2/27/2019	9/24/2019	5	150	
3	Building Construction	Building Construction	9/25/2019	5/14/2021	5	428	
4	Architectural Coating	Architectural Coating	7/9/2021	12/6/2021	5	107	
5	Paving	Paving	7/9/2021	12/6/2021	5	107	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 361,551; Non-Residential Outdoor: 120,517; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Architectural Coating	Cranes	1	8.00	231	0.29
Paving	Dumpers/Tenders	1	8.00	16	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
	Concrete/Industrial Saws	1	8.00	81	0.73
	Dumpers/Tenders	1	8.00	16	0.38
Paving	Paving Equipment	2	8.00	132	0.36
	Excavators	1	8.00	158	0.38
	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Dumpers/Tenders	2	8.00	16	0.38
Grading	Excavators	2	8.00	158	0.38
Grading	Plate Compactors	2	8.00	8	0.43
Building Construction	Welders	1	8.00	46	0.45
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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**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
Architectural Coating	2	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	102.00	40.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	16.00	0.00	1,009.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Demolition - 2018**

**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	0.1227	1.2646	0.7360	1.2800e-003		0.0640	0.0640		0.0596	0.0596	0.0000	115.9095	115.9095	0.0319	0.0000	116.7078
<b>Total</b>	<b>0.1227</b>	<b>1.2646</b>	<b>0.7360</b>	<b>1.2800e-003</b>		<b>0.0640</b>	<b>0.0640</b>		<b>0.0596</b>	<b>0.0596</b>	<b>0.0000</b>	<b>115.9095</b>	<b>115.9095</b>	<b>0.0319</b>	<b>0.0000</b>	<b>116.7078</b>

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**3.2 Demolition - 2018**

**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	2.2600e-003	1.7900e-003	0.0171	5.0000e-005	4.2300e-003	3.0000e-005	4.2700e-003	1.1300e-003	3.0000e-005	1.1500e-003	0.0000	4.0750	4.0750	1.4000e-004	0.0000	4.0785
<b>Total</b>	<b>2.2600e-003</b>	<b>1.7900e-003</b>	<b>0.0171</b>	<b>5.0000e-005</b>	<b>4.2300e-003</b>	<b>3.0000e-005</b>	<b>4.2700e-003</b>	<b>1.1300e-003</b>	<b>3.0000e-005</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>4.0750</b>	<b>4.0750</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>4.0785</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	0.0463	0.7449	0.8117	1.2800e-003		0.0360	0.0360		0.0352	0.0352	0.0000	115.9093	115.9093	0.0319	0.0000	116.7077
<b>Total</b>	<b>0.0463</b>	<b>0.7449</b>	<b>0.8117</b>	<b>1.2800e-003</b>		<b>0.0360</b>	<b>0.0360</b>		<b>0.0352</b>	<b>0.0352</b>	<b>0.0000</b>	<b>115.9093</b>	<b>115.9093</b>	<b>0.0319</b>	<b>0.0000</b>	<b>116.7077</b>

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**3.2 Demolition - 2018**

**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	2.2600e-003	1.7900e-003	0.0171	5.0000e-005	4.2300e-003	3.0000e-005	4.2700e-003	1.1300e-003	3.0000e-005	1.1500e-003	0.0000	4.0750	4.0750	1.4000e-004	0.0000	4.0785
<b>Total</b>	<b>2.2600e-003</b>	<b>1.7900e-003</b>	<b>0.0171</b>	<b>5.0000e-005</b>	<b>4.2300e-003</b>	<b>3.0000e-005</b>	<b>4.2700e-003</b>	<b>1.1300e-003</b>	<b>3.0000e-005</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>4.0750</b>	<b>4.0750</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>4.0785</b>

**3.2 Demolition - 2019**

**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	0.0720	0.7336	0.4522	8.0000e-004		0.0368	0.0368		0.0342	0.0342	0.0000	70.9840	70.9840	0.0198	0.0000	71.4777
<b>Total</b>	<b>0.0720</b>	<b>0.7336</b>	<b>0.4522</b>	<b>8.0000e-004</b>		<b>0.0368</b>	<b>0.0368</b>		<b>0.0342</b>	<b>0.0342</b>	<b>0.0000</b>	<b>70.9840</b>	<b>70.9840</b>	<b>0.0198</b>	<b>0.0000</b>	<b>71.4777</b>

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**3.2 Demolition - 2019**

**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	1.2900e-003	9.9000e-004	9.6000e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.4551	2.4551	8.0000e-005	0.0000	2.4570
<b>Total</b>	<b>1.2900e-003</b>	<b>9.9000e-004</b>	<b>9.6000e-003</b>	<b>3.0000e-005</b>	<b>2.6300e-003</b>	<b>2.0000e-005</b>	<b>2.6500e-003</b>	<b>7.0000e-004</b>	<b>2.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>2.4551</b>	<b>2.4551</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.4570</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	0.0284	0.4577	0.5033	8.0000e-004		0.0222	0.0222		0.0217	0.0217	0.0000	70.9839	70.9839	0.0198	0.0000	71.4776
<b>Total</b>	<b>0.0284</b>	<b>0.4577</b>	<b>0.5033</b>	<b>8.0000e-004</b>		<b>0.0222</b>	<b>0.0222</b>		<b>0.0217</b>	<b>0.0217</b>	<b>0.0000</b>	<b>70.9839</b>	<b>70.9839</b>	<b>0.0198</b>	<b>0.0000</b>	<b>71.4776</b>

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**3.2 Demolition - 2019**

**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	1.2900e-003	9.9000e-004	9.6000e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.4551	2.4551	8.0000e-005	0.0000	2.4570
<b>Total</b>	<b>1.2900e-003</b>	<b>9.9000e-004</b>	<b>9.6000e-003</b>	<b>3.0000e-005</b>	<b>2.6300e-003</b>	<b>2.0000e-005</b>	<b>2.6500e-003</b>	<b>7.0000e-004</b>	<b>2.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>2.4551</b>	<b>2.4551</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.4570</b>

**3.3 Grading - 2019**

**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					0.4518	0.0000	0.4518	0.2483	0.0000	0.2483	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2303	2.4368	1.5384	2.8000e-003		0.1188	0.1188		0.1096	0.1096	0.0000	247.9256	247.9256	0.0757	0.0000	249.8184
<b>Total</b>	<b>0.2303</b>	<b>2.4368</b>	<b>1.5384</b>	<b>2.8000e-003</b>	<b>0.4518</b>	<b>0.1188</b>	<b>0.5705</b>	<b>0.2483</b>	<b>0.1096</b>	<b>0.3579</b>	<b>0.0000</b>	<b>247.9256</b>	<b>247.9256</b>	<b>0.0757</b>	<b>0.0000</b>	<b>249.8184</b>



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**3.3 Grading - 2019**

**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	4.4300e-003	0.1546	0.0337	4.0000e-004	8.6300e-003	5.8000e-004	9.2100e-003	2.3700e-003	5.5000e-004	2.9200e-003	0.0000	39.3305	39.3305	3.5600e-003	0.0000	39.4196
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	4.7300e-003	3.6300e-003	0.0351	1.0000e-004	9.6200e-003	7.0000e-005	9.6900e-003	2.5600e-003	6.0000e-005	2.6200e-003	0.0000	8.9820	8.9820	2.9000e-004	0.0000	8.9892
<b>Total</b>	<b>9.1600e-003</b>	<b>0.1582</b>	<b>0.0688</b>	<b>5.0000e-004</b>	<b>0.0183</b>	<b>6.5000e-004</b>	<b>0.0189</b>	<b>4.9300e-003</b>	<b>6.1000e-004</b>	<b>5.5400e-003</b>	<b>0.0000</b>	<b>48.3125</b>	<b>48.3125</b>	<b>3.8500e-003</b>	<b>0.0000</b>	<b>48.4088</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					0.2033	0.0000	0.2033	0.1117	0.0000	0.1117	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1323	1.8096	1.5840	2.8000e-003		0.0866	0.0866		0.0823	0.0823	0.0000	247.9253	247.9253	0.0757	0.0000	249.8181
<b>Total</b>	<b>0.1323</b>	<b>1.8096</b>	<b>1.5840</b>	<b>2.8000e-003</b>	<b>0.2033</b>	<b>0.0866</b>	<b>0.2899</b>	<b>0.1117</b>	<b>0.0823</b>	<b>0.1940</b>	<b>0.0000</b>	<b>247.9253</b>	<b>247.9253</b>	<b>0.0757</b>	<b>0.0000</b>	<b>249.8181</b>

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**3.3 Grading - 2019**

**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	4.4300e-003	0.1546	0.0337	4.0000e-004	8.6300e-003	5.8000e-004	9.2100e-003	2.3700e-003	5.5000e-004	2.9200e-003	0.0000	39.3305	39.3305	3.5600e-003	0.0000	39.4196
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	4.7300e-003	3.6300e-003	0.0351	1.0000e-004	9.6200e-003	7.0000e-005	9.6900e-003	2.5600e-003	6.0000e-005	2.6200e-003	0.0000	8.9820	8.9820	2.9000e-004	0.0000	8.9892
<b>Total</b>	<b>9.1600e-003</b>	<b>0.1582</b>	<b>0.0688</b>	<b>5.0000e-004</b>	<b>0.0183</b>	<b>6.5000e-004</b>	<b>0.0189</b>	<b>4.9300e-003</b>	<b>6.1000e-004</b>	<b>5.5400e-003</b>	<b>0.0000</b>	<b>48.3125</b>	<b>48.3125</b>	<b>3.8500e-003</b>	<b>0.0000</b>	<b>48.4088</b>

**3.4 Building Construction - 2019**

**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	0.0900	0.7765	0.6221	1.0400e-003		0.0461	0.0461		0.0441	0.0441	0.0000	89.9134	89.9134	0.0172	0.0000	90.3430
<b>Total</b>	<b>0.0900</b>	<b>0.7765</b>	<b>0.6221</b>	<b>1.0400e-003</b>		<b>0.0461</b>	<b>0.0461</b>		<b>0.0441</b>	<b>0.0441</b>	<b>0.0000</b>	<b>89.9134</b>	<b>89.9134</b>	<b>0.0172</b>	<b>0.0000</b>	<b>90.3430</b>

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**3.4 Building Construction - 2019**

**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	6.5600e-003	0.1757	0.0472	3.8000e-004	9.2900e-003	1.2200e-003	0.0105	2.6800e-003	1.1600e-003	3.8500e-003	0.0000	37.1949	37.1949	2.9900e-003	0.0000	37.2695
Worker	0.0141	0.0108	0.1045	3.0000e-004	0.0286	2.1000e-004	0.0288	7.6100e-003	1.9000e-004	7.8000e-003	0.0000	26.7213	26.7213	8.6000e-004	0.0000	26.7428
<b>Total</b>	<b>0.0206</b>	<b>0.1865</b>	<b>0.1517</b>	<b>6.8000e-004</b>	<b>0.0379</b>	<b>1.4300e-003</b>	<b>0.0394</b>	<b>0.0103</b>	<b>1.3500e-003</b>	<b>0.0117</b>	<b>0.0000</b>	<b>63.9162</b>	<b>63.9162</b>	<b>3.8500e-003</b>	<b>0.0000</b>	<b>64.0124</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	0.0523	0.6180	0.6375	1.0400e-003		0.0392	0.0392		0.0380	0.0380	0.0000	89.9133	89.9133	0.0172	0.0000	90.3429
<b>Total</b>	<b>0.0523</b>	<b>0.6180</b>	<b>0.6375</b>	<b>1.0400e-003</b>		<b>0.0392</b>	<b>0.0392</b>		<b>0.0380</b>	<b>0.0380</b>	<b>0.0000</b>	<b>89.9133</b>	<b>89.9133</b>	<b>0.0172</b>	<b>0.0000</b>	<b>90.3429</b>

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**3.4 Building Construction - 2019**

**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	6.5600e-003	0.1757	0.0472	3.8000e-004	9.2900e-003	1.2200e-003	0.0105	2.6800e-003	1.1600e-003	3.8500e-003	0.0000	37.1949	37.1949	2.9900e-003	0.0000	37.2695
Worker	0.0141	0.0108	0.1045	3.0000e-004	0.0286	2.1000e-004	0.0288	7.6100e-003	1.9000e-004	7.8000e-003	0.0000	26.7213	26.7213	8.6000e-004	0.0000	26.7428
<b>Total</b>	<b>0.0206</b>	<b>0.1865</b>	<b>0.1517</b>	<b>6.8000e-004</b>	<b>0.0379</b>	<b>1.4300e-003</b>	<b>0.0394</b>	<b>0.0103</b>	<b>1.3500e-003</b>	<b>0.0117</b>	<b>0.0000</b>	<b>63.9162</b>	<b>63.9162</b>	<b>3.8500e-003</b>	<b>0.0000</b>	<b>64.0124</b>

**3.4 Building Construction - 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					
Off-Road	0.3032	2.6583	2.2868	3.9100e-003		0.1504	0.1504		0.1437	0.1437	0.0000	333.0921	333.0921	0.0628	0.0000	334.6617
<b>Total</b>	<b>0.3032</b>	<b>2.6583</b>	<b>2.2868</b>	<b>3.9100e-003</b>		<b>0.1504</b>	<b>0.1504</b>		<b>0.1437</b>	<b>0.1437</b>	<b>0.0000</b>	<b>333.0921</b>	<b>333.0921</b>	<b>0.0628</b>	<b>0.0000</b>	<b>334.6617</b>

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**3.4 Building Construction - 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	0.0200	0.5973	0.1587	1.4200e-003	0.0348	2.9100e-003	0.0377	0.0100	2.7900e-003	0.0128	0.0000	138.2634	138.2634	0.0106	0.0000	138.5283
Worker	0.0493	0.0365	0.3576	1.0700e-003	0.1072	7.7000e-004	0.1079	0.0285	7.1000e-004	0.0292	0.0000	96.8579	96.8579	2.9100e-003	0.0000	96.9306
<b>Total</b>	<b>0.0692</b>	<b>0.6338</b>	<b>0.5162</b>	<b>2.4900e-003</b>	<b>0.1419</b>	<b>3.6800e-003</b>	<b>0.1456</b>	<b>0.0385</b>	<b>3.5000e-003</b>	<b>0.0420</b>	<b>0.0000</b>	<b>235.1213</b>	<b>235.1213</b>	<b>0.0135</b>	<b>0.0000</b>	<b>235.4589</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	0.1814	2.1999	2.3760	3.9100e-003		0.1352	0.1352		0.1311	0.1311	0.0000	333.0917	333.0917	0.0628	0.0000	334.6613
<b>Total</b>	<b>0.1814</b>	<b>2.1999</b>	<b>2.3760</b>	<b>3.9100e-003</b>		<b>0.1352</b>	<b>0.1352</b>		<b>0.1311</b>	<b>0.1311</b>	<b>0.0000</b>	<b>333.0917</b>	<b>333.0917</b>	<b>0.0628</b>	<b>0.0000</b>	<b>334.6613</b>

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**3.4 Building Construction - 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	0.0200	0.5973	0.1587	1.4200e-003	0.0348	2.9100e-003	0.0377	0.0100	2.7900e-003	0.0128	0.0000	138.2634	138.2634	0.0106	0.0000	138.5283
Worker	0.0493	0.0365	0.3576	1.0700e-003	0.1072	7.7000e-004	0.1079	0.0285	7.1000e-004	0.0292	0.0000	96.8579	96.8579	2.9100e-003	0.0000	96.9306
<b>Total</b>	<b>0.0692</b>	<b>0.6338</b>	<b>0.5162</b>	<b>2.4900e-003</b>	<b>0.1419</b>	<b>3.6800e-003</b>	<b>0.1456</b>	<b>0.0385</b>	<b>3.5000e-003</b>	<b>0.0420</b>	<b>0.0000</b>	<b>235.1213</b>	<b>235.1213</b>	<b>0.0135</b>	<b>0.0000</b>	<b>235.4589</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1000	0.8878	0.8245	1.4300e-003		0.0476	0.0476		0.0455	0.0455	0.0000	122.0526	122.0526	0.0226	0.0000	122.6166
<b>Total</b>	<b>0.1000</b>	<b>0.8878</b>	<b>0.8245</b>	<b>1.4300e-003</b>		<b>0.0476</b>	<b>0.0476</b>		<b>0.0455</b>	<b>0.0455</b>	<b>0.0000</b>	<b>122.0526</b>	<b>122.0526</b>	<b>0.0226</b>	<b>0.0000</b>	<b>122.6166</b>

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**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9400e-003	0.1973	0.0526	5.1000e-004	0.0127	4.2000e-004	0.0132	3.6800e-003	4.0000e-004	4.0800e-003	0.0000	50.1965	50.1965	3.7300e-003	0.0000	50.2896
Worker	0.0170	0.0121	0.1223	3.8000e-004	0.0393	2.8000e-004	0.0395	0.0104	2.6000e-004	0.0107	0.0000	34.2976	34.2976	9.8000e-004	0.0000	34.3222
<b>Total</b>	<b>0.0230</b>	<b>0.2095</b>	<b>0.1749</b>	<b>8.9000e-004</b>	<b>0.0520</b>	<b>7.0000e-004</b>	<b>0.0527</b>	<b>0.0141</b>	<b>6.6000e-004</b>	<b>0.0148</b>	<b>0.0000</b>	<b>84.4941</b>	<b>84.4941</b>	<b>4.7100e-003</b>	<b>0.0000</b>	<b>84.6118</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	0.0616	0.7665	0.8671	1.4300e-003		0.0455	0.0455		0.0443	0.0443	0.0000	122.0524	122.0524	0.0226	0.0000	122.6165
<b>Total</b>	<b>0.0616</b>	<b>0.7665</b>	<b>0.8671</b>	<b>1.4300e-003</b>		<b>0.0455</b>	<b>0.0455</b>		<b>0.0443</b>	<b>0.0443</b>	<b>0.0000</b>	<b>122.0524</b>	<b>122.0524</b>	<b>0.0226</b>	<b>0.0000</b>	<b>122.6165</b>

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**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9400e-003	0.1973	0.0526	5.1000e-004	0.0127	4.2000e-004	0.0132	3.6800e-003	4.0000e-004	4.0800e-003	0.0000	50.1965	50.1965	3.7300e-003	0.0000	50.2896
Worker	0.0170	0.0121	0.1223	3.8000e-004	0.0393	2.8000e-004	0.0395	0.0104	2.6000e-004	0.0107	0.0000	34.2976	34.2976	9.8000e-004	0.0000	34.3222
<b>Total</b>	<b>0.0230</b>	<b>0.2095</b>	<b>0.1749</b>	<b>8.9000e-004</b>	<b>0.0520</b>	<b>7.0000e-004</b>	<b>0.0527</b>	<b>0.0141</b>	<b>6.6000e-004</b>	<b>0.0148</b>	<b>0.0000</b>	<b>84.4941</b>	<b>84.4941</b>	<b>4.7100e-003</b>	<b>0.0000</b>	<b>84.6118</b>

**3.5 Architectural Coating - 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	1.1172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0376	0.3667	0.2350	5.2000e-004		0.0172	0.0172		0.0163	0.0163	0.0000	45.1536	45.1536	9.9600e-003	0.0000	45.4027
<b>Total</b>	<b>1.1548</b>	<b>0.3667</b>	<b>0.2350</b>	<b>5.2000e-004</b>		<b>0.0172</b>	<b>0.0172</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>45.1536</b>	<b>45.1536</b>	<b>9.9600e-003</b>	<b>0.0000</b>	<b>45.4027</b>



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**3.5 Architectural Coating - 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	3.7200e-003	2.6500e-003	0.0267	8.0000e-005	8.5800e-003	6.0000e-005	8.6400e-003	2.2800e-003	6.0000e-005	2.3400e-003	0.0000	7.4956	7.4956	2.1000e-004	0.0000	7.5010
<b>Total</b>	<b>3.7200e-003</b>	<b>2.6500e-003</b>	<b>0.0267</b>	<b>8.0000e-005</b>	<b>8.5800e-003</b>	<b>6.0000e-005</b>	<b>8.6400e-003</b>	<b>2.2800e-003</b>	<b>6.0000e-005</b>	<b>2.3400e-003</b>	<b>0.0000</b>	<b>7.4956</b>	<b>7.4956</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>7.5010</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					
Archit. Coating	1.1172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.2425	0.2940	5.2000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	45.1535	45.1535	9.9600e-003	0.0000	45.4026
<b>Total</b>	<b>1.1290</b>	<b>0.2425</b>	<b>0.2940</b>	<b>5.2000e-004</b>		<b>0.0123</b>	<b>0.0123</b>		<b>0.0123</b>	<b>0.0123</b>	<b>0.0000</b>	<b>45.1535</b>	<b>45.1535</b>	<b>9.9600e-003</b>	<b>0.0000</b>	<b>45.4026</b>

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**3.5 Architectural Coating - 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	3.7200e-003	2.6500e-003	0.0267	8.0000e-005	8.5800e-003	6.0000e-005	8.6400e-003	2.2800e-003	6.0000e-005	2.3400e-003	0.0000	7.4956	7.4956	2.1000e-004	0.0000	7.5010
<b>Total</b>	<b>3.7200e-003</b>	<b>2.6500e-003</b>	<b>0.0267</b>	<b>8.0000e-005</b>	<b>8.5800e-003</b>	<b>6.0000e-005</b>	<b>8.6400e-003</b>	<b>2.2800e-003</b>	<b>6.0000e-005</b>	<b>2.3400e-003</b>	<b>0.0000</b>	<b>7.4956</b>	<b>7.4956</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>7.5010</b>

**3.6 Paving - 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	0.0478	0.4743	0.5414	8.7000e-004		0.0242	0.0242		0.0223	0.0223	0.0000	75.6652	75.6652	0.0238	0.0000	76.2610
Paving	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>0.0478</b>	<b>0.4743</b>	<b>0.5414</b>	<b>8.7000e-004</b>		<b>0.0242</b>	<b>0.0242</b>		<b>0.0223</b>	<b>0.0223</b>	<b>0.0000</b>	<b>75.6652</b>	<b>75.6652</b>	<b>0.0238</b>	<b>0.0000</b>	<b>76.2610</b>

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**3.6 Paving - 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	2.9800e-003	2.1200e-003	0.0214	7.0000e-005	6.8600e-003	5.0000e-005	6.9100e-003	1.8200e-003	4.0000e-005	1.8700e-003	0.0000	5.9965	5.9965	1.7000e-004	0.0000	6.0008
<b>Total</b>	<b>2.9800e-003</b>	<b>2.1200e-003</b>	<b>0.0214</b>	<b>7.0000e-005</b>	<b>6.8600e-003</b>	<b>5.0000e-005</b>	<b>6.9100e-003</b>	<b>1.8200e-003</b>	<b>4.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.9965</b>	<b>5.9965</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>6.0008</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	0.0302	0.4057	0.5687	8.7000e-004		0.0215	0.0215		0.0207	0.0207	0.0000	75.6651	75.6651	0.0238	0.0000	76.2609
Paving	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>0.0302</b>	<b>0.4057</b>	<b>0.5687</b>	<b>8.7000e-004</b>		<b>0.0215</b>	<b>0.0215</b>		<b>0.0207</b>	<b>0.0207</b>	<b>0.0000</b>	<b>75.6651</b>	<b>75.6651</b>	<b>0.0238</b>	<b>0.0000</b>	<b>76.2609</b>

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**3.6 Paving - 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	2.9800e-003	2.1200e-003	0.0214	7.0000e-005	6.8600e-003	5.0000e-005	6.9100e-003	1.8200e-003	4.0000e-005	1.8700e-003	0.0000	5.9965	5.9965	1.7000e-004	0.0000	6.0008
<b>Total</b>	<b>2.9800e-003</b>	<b>2.1200e-003</b>	<b>0.0214</b>	<b>7.0000e-005</b>	<b>6.8600e-003</b>	<b>5.0000e-005</b>	<b>6.9100e-003</b>	<b>1.8200e-003</b>	<b>4.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.9965</b>	<b>5.9965</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>6.0008</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0131	0.0632	0.1785	6.2000e-004	0.0524	6.1000e-004	0.0530	0.0140	5.8000e-004	0.0146	0.0000	56.8899	56.8899	2.9500e-003	0.0000	56.9636
Unmitigated	0.0131	0.0632	0.1785	6.2000e-004	0.0524	6.1000e-004	0.0530	0.0140	5.8000e-004	0.0146	0.0000	56.8899	56.8899	2.9500e-003	0.0000	56.9636

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	24.10	83.84	24.10	138,996	138,996
Total	24.10	83.84	24.10	138,996	138,996

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	0.00	0.00	11.70	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N



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**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr					
General Light Industry	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	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>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior



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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	1.0533	2.0000e-005	2.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3100e-003	4.3100e-003	1.0000e-005	0.0000	4.6000e-003
Unmitigated	1.0533	2.0000e-005	2.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3100e-003	4.3100e-003	1.0000e-005	0.0000	4.6000e-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	0.1117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9414					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3100e-003	4.3100e-003	1.0000e-005	0.0000	4.6000e-003
<b>Total</b>	<b>1.0533</b>	<b>2.0000e-005</b>	<b>2.2300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.3100e-003</b>	<b>4.3100e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.6000e-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	0.1117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9414					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3100e-003	4.3100e-003	1.0000e-005	0.0000	4.6000e-003
<b>Total</b>	<b>1.0533</b>	<b>2.0000e-005</b>	<b>2.2300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.3100e-003</b>	<b>4.3100e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.6000e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.4267	0.0102	2.5000e-004	1.7570
Unmitigated	1.4267	0.0102	2.5000e-004	1.7570

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.312 / 0	1.4267	0.0102	2.5000e-004	1.7570
<b>Total</b>		<b>1.4267</b>	<b>0.0102</b>	<b>2.5000e-004</b>	<b>1.7570</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			
General Light Industry	0.312 / 0	1.4267	0.0102	2.5000e-004	1.7570
<b>Total</b>		<b>1.4267</b>	<b>0.0102</b>	<b>2.5000e-004</b>	<b>1.7570</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.7924	0.1059	0.0000	4.4406
Unmitigated	1.7924	0.1059	0.0000	4.4406

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	8.83	1.7924	0.1059	0.0000	4.4406
<b>Total</b>		<b>1.7924</b>	<b>0.1059</b>	<b>0.0000</b>	<b>4.4406</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	8.83	1.7924	0.1059	0.0000	4.4406
<b>Total</b>		<b>1.7924</b>	<b>0.1059</b>	<b>0.0000</b>	<b>4.4406</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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## NCWRP Expansion - San Diego County APCD Air District, 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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NCWRP Expansion - San Diego County APCD Air District, Summer

**NCWRP Expansion**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	241.03	1000sqft	5.53	241,034.00	49

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

NCWRP Expansion - San Diego County APCD Air District, Summer

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description.

Construction Phase - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Grading - See Section 7.1.2 for Construction Details.

Demolition - No demolition of structures.

Trips and VMT - See Section 7.1.2 for Construction Details.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1.

Vehicle Trips - Based on the traffic information study.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Woodstoves -

Consumer Products -

Area Coating - In accordance with SDAPCD Rule 67.0.1.

Landscape Equipment -

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on information provided by the City.

Solid Waste - EPA waste generation of 4.46 lb/person/day.

Construction Off-road Equipment Mitigation - Per MM-AQ-1, all construction equipment must be at least Tier 3.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1.





## NCWRP Expansion - San Diego County APCD Air District, Summer

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	107.00
tblConstructionPhase	NumDays	230.00	428.00
tblConstructionPhase	NumDays	20.00	107.00
tblConstructionPhase	NumDays	20.00	150.00
tblConstructionPhase	NumDays	20.00	107.00
tblConstructionPhase	PhaseEndDate	9/30/2018	12/6/2021
tblConstructionPhase	PhaseEndDate	9/30/2018	5/14/2021
tblConstructionPhase	PhaseEndDate	9/30/2018	2/26/2019
tblConstructionPhase	PhaseEndDate	9/30/2018	9/24/2019
tblConstructionPhase	PhaseEndDate	9/30/2018	12/6/2021
tblConstructionPhase	PhaseStartDate	10/1/2018	7/9/2021
tblConstructionPhase	PhaseStartDate	10/1/2018	9/25/2019
tblConstructionPhase	PhaseStartDate	10/1/2018	2/27/2019
tblConstructionPhase	PhaseStartDate	10/1/2018	7/9/2021
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	75.00	0.00
tblGrading	MaterialExported	0.00	1,644.00
tblLandUse	Population	0.00	49.00

NCWRP Expansion - San Diego County APCD Air District, Summer

tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblSolidWaste	SolidWasteGenerationRate	298.88	8.83

## NCWRP Expansion - San Diego County APCD Air District, Summer

tblTripsAndVMT	HaulingTripNumber	206.00	1,009.00
tblTripsAndVMT	WorkerTripNumber	101.00	102.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	28.00	16.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	11.70
tblVehicleTrips	CNW_TTP	13.00	100.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	0.35
tblVehicleTrips	SU_TR	0.68	0.10
tblVehicleTrips	WD_TR	6.97	0.10
tblWater	IndoorWaterUseRate	55,738,187.50	312,000.00

## 2.0 Emissions Summary

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NCWRP Expansion - San Diego County APCD Air District, 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					
2018	3.7871	38.3716	22.8518	0.0403	0.1314	1.9395	2.0709	0.0349	1.8057	1.8406	0.0000	4,015.3224	4,015.3224	1.0716	0.0000	4,042.1131
2019	3.5762	35.8268	22.5551	0.0498	6.2726	1.7958	7.8645	3.3775	1.6705	4.8468	0.0000	4,903.4578	4,903.4578	1.1687	0.0000	4,919.9801
2020	2.8380	25.0550	21.4967	0.0494	1.1087	1.1760	2.2847	0.3002	1.1231	1.4233	0.0000	4,838.5958	4,838.5958	0.6408	0.0000	4,854.6145
2021	22.6020	22.7987	20.9204	0.0490	1.1087	1.0061	2.1148	0.3002	0.9606	1.2608	0.0000	4,799.0525	4,799.0525	0.7047	0.0000	4,814.6799
<b>Maximum</b>	<b>22.6020</b>	<b>38.3716</b>	<b>22.8518</b>	<b>0.0498</b>	<b>6.2726</b>	<b>1.9395</b>	<b>7.8645</b>	<b>3.3775</b>	<b>1.8057</b>	<b>4.8468</b>	<b>0.0000</b>	<b>4,903.4578</b>	<b>4,903.4578</b>	<b>1.1687</b>	<b>0.0000</b>	<b>4,919.9801</b>



NCWRP Expansion - San Diego County APCD Air District, 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	5.7726	2.3000e-004	0.0248	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0528	0.0528	1.4000e-004		0.0563
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	0.1928	0.8577	2.6279	9.1200e-003	0.7572	8.6700e-003	0.7659	0.2024	8.1400e-003	0.2105		925.0218	925.0218	0.0465		926.1831
<b>Total</b>	<b>5.9655</b>	<b>0.8580</b>	<b>2.6526</b>	<b>9.1200e-003</b>	<b>0.7572</b>	<b>8.7600e-003</b>	<b>0.7659</b>	<b>0.2024</b>	<b>8.2300e-003</b>	<b>0.2106</b>		<b>925.0746</b>	<b>925.0746</b>	<b>0.0466</b>	<b>0.0000</b>	<b>926.2394</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	5.7726	2.3000e-004	0.0248	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0528	0.0528	1.4000e-004		0.0563
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	0.1928	0.8577	2.6279	9.1200e-003	0.7572	8.6700e-003	0.7659	0.2024	8.1400e-003	0.2105		925.0218	925.0218	0.0465		926.1831
<b>Total</b>	<b>5.9655</b>	<b>0.8580</b>	<b>2.6526</b>	<b>9.1200e-003</b>	<b>0.7572</b>	<b>8.7600e-003</b>	<b>0.7659</b>	<b>0.2024</b>	<b>8.2300e-003</b>	<b>0.2106</b>		<b>925.0746</b>	<b>925.0746</b>	<b>0.0466</b>	<b>0.0000</b>	<b>926.2394</b>

## NCWRP Expansion - San Diego County APCD Air District, 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	Demolition	Demolition	10/1/2018	2/26/2019	5	107	
2	Grading	Grading	2/27/2019	9/24/2019	5	150	
3	Building Construction	Building Construction	9/25/2019	5/14/2021	5	428	
4	Architectural Coating	Architectural Coating	7/9/2021	12/6/2021	5	107	
5	Paving	Paving	7/9/2021	12/6/2021	5	107	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 361,551; Non-Residential Outdoor: 120,517; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment



## NCWRP Expansion - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Architectural Coating	Cranes	1	8.00	231	0.29
Paving	Dumpers/Tenders	1	8.00	16	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
	Concrete/Industrial Saws	1	8.00	81	0.73
	Dumpers/Tenders	1	8.00	16	0.38
Paving	Paving Equipment	2	8.00	132	0.36
	Excavators	1	8.00	158	0.38
	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Dumpers/Tenders	2	8.00	16	0.38
Grading	Excavators	2	8.00	158	0.38
Grading	Plate Compactors	2	8.00	8	0.43
Building Construction	Welders	1	8.00	46	0.45
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

NCWRP Expansion - San Diego County APCD Air District, Summer

**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
Architectural Coating	2	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	102.00	40.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	16.00	0.00	1,009.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Demolition - 2018**

**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	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>	<b>0.0388</b>		<b>1.9386</b>	<b>1.9386</b>		<b>1.8048</b>	<b>1.8048</b>		<b>3,871.7665</b>	<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

NCWRP Expansion - San Diego County APCD Air District, Summer

**3.2 Demolition - 2018**

**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	0.0681	0.0491	0.5477	1.4400e-003	0.1314	9.5000e-004	0.1324	0.0349	8.7000e-004	0.0357		143.5559	143.5559	4.9100e-003		143.6787
<b>Total</b>	<b>0.0681</b>	<b>0.0491</b>	<b>0.5477</b>	<b>1.4400e-003</b>	<b>0.1314</b>	<b>9.5000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.7000e-004</b>	<b>0.0357</b>		<b>143.5559</b>	<b>143.5559</b>	<b>4.9100e-003</b>		<b>143.6787</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	1.4031	22.5716	24.5968	0.0388		1.0913	1.0913		1.0669	1.0669	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>1.4031</b>	<b>22.5716</b>	<b>24.5968</b>	<b>0.0388</b>		<b>1.0913</b>	<b>1.0913</b>		<b>1.0669</b>	<b>1.0669</b>	<b>0.0000</b>	<b>3,871.7665</b>	<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

NCWRP Expansion - San Diego County APCD Air District, Summer

**3.2 Demolition - 2018**

**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	0.0681	0.0491	0.5477	1.4400e-003	0.1314	9.5000e-004	0.1324	0.0349	8.7000e-004	0.0357		143.5559	143.5559	4.9100e-003		143.6787
<b>Total</b>	<b>0.0681</b>	<b>0.0491</b>	<b>0.5477</b>	<b>1.4400e-003</b>	<b>0.1314</b>	<b>9.5000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.7000e-004</b>	<b>0.0357</b>		<b>143.5559</b>	<b>143.5559</b>	<b>4.9100e-003</b>		<b>143.6787</b>

**3.2 Demolition - 2019**

**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	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>		<b>1.7949</b>	<b>1.7949</b>		<b>1.6697</b>	<b>1.6697</b>		<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>

NCWRP Expansion - San Diego County APCD Air District, Summer

**3.2 Demolition - 2019**

**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	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.0628</b>	<b>0.0438</b>	<b>0.4951</b>	<b>1.4000e-003</b>	<b>0.1314</b>	<b>9.4000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.6000e-004</b>	<b>0.0357</b>		<b>139.2319</b>	<b>139.2319</b>	<b>4.4500e-003</b>		<b>139.3431</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	1.3873	22.3288	24.5506	0.0388		1.0804	1.0804		1.0569	1.0569	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>1.3873</b>	<b>22.3288</b>	<b>24.5506</b>	<b>0.0388</b>		<b>1.0804</b>	<b>1.0804</b>		<b>1.0569</b>	<b>1.0569</b>	<b>0.0000</b>	<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>

NCWRP Expansion - San Diego County APCD Air District, Summer

**3.2 Demolition - 2019**

**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	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.0628</b>	<b>0.0438</b>	<b>0.4951</b>	<b>1.4000e-003</b>	<b>0.1314</b>	<b>9.4000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.6000e-004</b>	<b>0.0357</b>		<b>139.2319</b>	<b>139.2319</b>	<b>4.4500e-003</b>		<b>139.3431</b>

**3.3 Grading - 2019**

**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					6.0236	0.0000	6.0236	3.3105	0.0000	3.3105			0.0000			0.0000
Off-Road	3.0711	32.4903	20.5118	0.0373		1.5833	1.5833		1.4611	1.4611		3,643.8830	3,643.8830	1.1128		3,671.7017
<b>Total</b>	<b>3.0711</b>	<b>32.4903</b>	<b>20.5118</b>	<b>0.0373</b>	<b>6.0236</b>	<b>1.5833</b>	<b>7.6070</b>	<b>3.3105</b>	<b>1.4611</b>	<b>4.7716</b>		<b>3,643.8830</b>	<b>3,643.8830</b>	<b>1.1128</b>		<b>3,671.7017</b>

NCWRP Expansion - San Diego County APCD Air District, Summer

**3.3 Grading - 2019**

**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	0.0584	2.0205	0.4362	5.3400e-003	0.1175	7.6200e-003	0.1252	0.0322	7.2900e-003	0.0395		582.1746	582.1746	0.0515		583.4626
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	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.1212</b>	<b>2.0644</b>	<b>0.9312</b>	<b>6.7400e-003</b>	<b>0.2490</b>	<b>8.5600e-003</b>	<b>0.2575</b>	<b>0.0671</b>	<b>8.1500e-003</b>	<b>0.0752</b>		<b>721.4066</b>	<b>721.4066</b>	<b>0.0560</b>		<b>722.8057</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					2.7106	0.0000	2.7106	1.4897	0.0000	1.4897			0.0000			0.0000
Off-Road	1.7634	24.1281	21.1198	0.0373		1.1540	1.1540		1.0972	1.0972	0.0000	3,643.8830	3,643.8830	1.1128		3,671.7017
<b>Total</b>	<b>1.7634</b>	<b>24.1281</b>	<b>21.1198</b>	<b>0.0373</b>	<b>2.7106</b>	<b>1.1540</b>	<b>3.8646</b>	<b>1.4897</b>	<b>1.0972</b>	<b>2.5869</b>	<b>0.0000</b>	<b>3,643.8830</b>	<b>3,643.8830</b>	<b>1.1128</b>		<b>3,671.7017</b>

NCWRP Expansion - San Diego County APCD Air District, Summer

**3.3 Grading - 2019**

**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	0.0584	2.0205	0.4362	5.3400e-003	0.1175	7.6200e-003	0.1252	0.0322	7.2900e-003	0.0395		582.1746	582.1746	0.0515		583.4626
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	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.1212</b>	<b>2.0644</b>	<b>0.9312</b>	<b>6.7400e-003</b>	<b>0.2490</b>	<b>8.5600e-003</b>	<b>0.2575</b>	<b>0.0671</b>	<b>8.1500e-003</b>	<b>0.0752</b>		<b>721.4066</b>	<b>721.4066</b>	<b>0.0560</b>		<b>722.8057</b>

**3.4 Building Construction - 2019**

**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	2.5707	22.1846	17.7738	0.0298		1.3181	1.3181		1.2589	1.2589		2,831.7876	2,831.7876	0.5411		2,845.3160
<b>Total</b>	<b>2.5707</b>	<b>22.1846</b>	<b>17.7738</b>	<b>0.0298</b>		<b>1.3181</b>	<b>1.3181</b>		<b>1.2589</b>	<b>1.2589</b>		<b>2,831.7876</b>	<b>2,831.7876</b>	<b>0.5411</b>		<b>2,845.3160</b>



NCWRP Expansion - San Diego County APCD Air District, Summer

**3.4 Building Construction - 2019**

**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	0.1841	4.9595	1.2804	0.0110	0.2708	0.0345	0.3053	0.0780	0.0330	0.1110		1,184.0665	1,184.0665	0.0914		1,186.3520
Worker	0.4005	0.2795	3.1560	8.9100e-003	0.8379	5.9700e-003	0.8439	0.2223	5.5000e-003	0.2278		887.6036	887.6036	0.0283		888.3122
<b>Total</b>	<b>0.5846</b>	<b>5.2390</b>	<b>4.4364</b>	<b>0.0200</b>	<b>1.1087</b>	<b>0.0405</b>	<b>1.1492</b>	<b>0.3002</b>	<b>0.0385</b>	<b>0.3387</b>		<b>2,071.6702</b>	<b>2,071.6702</b>	<b>0.1198</b>		<b>2,074.6642</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	1.4950	17.6580	18.2138	0.0298		1.1206	1.1206		1.0847	1.0847	0.0000	2,831.7876	2,831.7876	0.5411		2,845.3160
<b>Total</b>	<b>1.4950</b>	<b>17.6580</b>	<b>18.2138</b>	<b>0.0298</b>		<b>1.1206</b>	<b>1.1206</b>		<b>1.0847</b>	<b>1.0847</b>	<b>0.0000</b>	<b>2,831.7876</b>	<b>2,831.7876</b>	<b>0.5411</b>		<b>2,845.3160</b>

NCWRP Expansion - San Diego County APCD Air District, Summer

**3.4 Building Construction - 2019**

**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	0.1841	4.9595	1.2804	0.0110	0.2708	0.0345	0.3053	0.0780	0.0330	0.1110		1,184.0665	1,184.0665	0.0914		1,186.3520
Worker	0.4005	0.2795	3.1560	8.9100e-003	0.8379	5.9700e-003	0.8439	0.2223	5.5000e-003	0.2278		887.6036	887.6036	0.0283		888.3122
<b>Total</b>	<b>0.5846</b>	<b>5.2390</b>	<b>4.4364</b>	<b>0.0200</b>	<b>1.1087</b>	<b>0.0405</b>	<b>1.1492</b>	<b>0.3002</b>	<b>0.0385</b>	<b>0.3387</b>		<b>2,071.6702</b>	<b>2,071.6702</b>	<b>0.1198</b>		<b>2,074.6642</b>

**3.4 Building Construction - 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					
Off-Road	2.3142	20.2925	17.4563	0.0298		1.1480	1.1480		1.0966	1.0966		2,802.8335	2,802.8335	0.5283		2,816.0414
<b>Total</b>	<b>2.3142</b>	<b>20.2925</b>	<b>17.4563</b>	<b>0.0298</b>		<b>1.1480</b>	<b>1.1480</b>		<b>1.0966</b>	<b>1.0966</b>		<b>2,802.8335</b>	<b>2,802.8335</b>	<b>0.5283</b>		<b>2,816.0414</b>

NCWRP Expansion - San Diego County APCD Air District, Summer

**3.4 Building Construction - 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	0.1495	4.5103	1.1491	0.0110	0.2708	0.0221	0.2929	0.0780	0.0211	0.0991		1,176.160 3	1,176.160 3	0.0868		1,178.329 5
Worker	0.3743	0.2522	2.8913	8.6300e-003	0.8379	5.8800e-003	0.8438	0.2223	5.4200e-003	0.2277		859.6020	859.6020	0.0257		860.2437
<b>Total</b>	<b>0.5238</b>	<b>4.7625</b>	<b>4.0403</b>	<b>0.0196</b>	<b>1.1087</b>	<b>0.0280</b>	<b>1.1366</b>	<b>0.3002</b>	<b>0.0265</b>	<b>0.3267</b>		<b>2,035.762 3</b>	<b>2,035.762 3</b>	<b>0.1124</b>		<b>2,038.573 1</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	1.3848	16.7928	18.1373	0.0298		1.0319	1.0319		1.0008	1.0008	0.0000	2,802.833 4	2,802.833 4	0.5283		2,816.041 4
<b>Total</b>	<b>1.3848</b>	<b>16.7928</b>	<b>18.1373</b>	<b>0.0298</b>		<b>1.0319</b>	<b>1.0319</b>		<b>1.0008</b>	<b>1.0008</b>	<b>0.0000</b>	<b>2,802.833 4</b>	<b>2,802.833 4</b>	<b>0.5283</b>		<b>2,816.041 4</b>

NCWRP Expansion - San Diego County APCD Air District, Summer

**3.4 Building Construction - 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	0.1495	4.5103	1.1491	0.0110	0.2708	0.0221	0.2929	0.0780	0.0211	0.0991		1,176.1603	1,176.1603	0.0868		1,178.3295
Worker	0.3743	0.2522	2.8913	8.6300e-003	0.8379	5.8800e-003	0.8438	0.2223	5.4200e-003	0.2277		859.6020	859.6020	0.0257		860.2437
<b>Total</b>	<b>0.5238</b>	<b>4.7625</b>	<b>4.0403</b>	<b>0.0196</b>	<b>1.1087</b>	<b>0.0280</b>	<b>1.1366</b>	<b>0.3002</b>	<b>0.0265</b>	<b>0.3267</b>		<b>2,035.7623</b>	<b>2,035.7623</b>	<b>0.1124</b>		<b>2,038.5731</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0839	18.4963	17.1770	0.0298		0.9918	0.9918		0.9471	0.9471		2,802.9150	2,802.9150	0.5181		2,815.8679
<b>Total</b>	<b>2.0839</b>	<b>18.4963</b>	<b>17.1770</b>	<b>0.0298</b>		<b>0.9918</b>	<b>0.9918</b>		<b>0.9471</b>	<b>0.9471</b>		<b>2,802.9150</b>	<b>2,802.9150</b>	<b>0.5181</b>		<b>2,815.8679</b>

NCWRP Expansion - San Diego County APCD Air District, Summer

**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1210	4.0732	1.0380	0.0108	0.2708	8.5500e-003	0.2793	0.0780	8.1800e-003	0.0861		1,165.4078	1,165.4078	0.0833		1,167.4896
Worker	0.3528	0.2292	2.7054	8.3400e-003	0.8379	5.7900e-003	0.8437	0.2223	5.3300e-003	0.2276		830.7297	830.7297	0.0237		831.3224
<b>Total</b>	<b>0.4738</b>	<b>4.3024</b>	<b>3.7434</b>	<b>0.0192</b>	<b>1.1087</b>	<b>0.0143</b>	<b>1.1230</b>	<b>0.3002</b>	<b>0.0135</b>	<b>0.3137</b>		<b>1,996.1375</b>	<b>1,996.1375</b>	<b>0.1070</b>		<b>1,998.8120</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	1.2825	15.9688	18.0647	0.0298		0.9486	0.9486		0.9218	0.9218	0.0000	2,802.9150	2,802.9150	0.5181		2,815.8679
<b>Total</b>	<b>1.2825</b>	<b>15.9688</b>	<b>18.0647</b>	<b>0.0298</b>		<b>0.9486</b>	<b>0.9486</b>		<b>0.9218</b>	<b>0.9218</b>	<b>0.0000</b>	<b>2,802.9150</b>	<b>2,802.9150</b>	<b>0.5181</b>		<b>2,815.8679</b>

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**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1210	4.0732	1.0380	0.0108	0.2708	8.5500e-003	0.2793	0.0780	8.1800e-003	0.0861		1,165.4078	1,165.4078	0.0833		1,167.4896
Worker	0.3528	0.2292	2.7054	8.3400e-003	0.8379	5.7900e-003	0.8437	0.2223	5.3300e-003	0.2276		830.7297	830.7297	0.0237		831.3224
<b>Total</b>	<b>0.4738</b>	<b>4.3024</b>	<b>3.7434</b>	<b>0.0192</b>	<b>1.1087</b>	<b>0.0143</b>	<b>1.1230</b>	<b>0.3002</b>	<b>0.0135</b>	<b>0.3137</b>		<b>1,996.1375</b>	<b>1,996.1375</b>	<b>0.1070</b>		<b>1,998.8120</b>

**3.5 Architectural Coating - 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	20.8821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7021	6.8534	4.3933	9.6900e-003		0.3211	0.3211		0.3054	0.3054		930.3421	930.3421	0.2053		935.4740
<b>Total</b>	<b>21.5842</b>	<b>6.8534</b>	<b>4.3933</b>	<b>9.6900e-003</b>		<b>0.3211</b>	<b>0.3211</b>		<b>0.3054</b>	<b>0.3054</b>		<b>930.3421</b>	<b>930.3421</b>	<b>0.2053</b>		<b>935.4740</b>

NCWRP Expansion - San Diego County APCD Air District, Summer

**3.5 Architectural Coating - 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	0.0692	0.0449	0.5305	1.6300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		162.8882	162.8882	4.6500e-003		163.0044
<b>Total</b>	<b>0.0692</b>	<b>0.0449</b>	<b>0.5305</b>	<b>1.6300e-003</b>	<b>0.1643</b>	<b>1.1300e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>1.0500e-003</b>	<b>0.0446</b>		<b>162.8882</b>	<b>162.8882</b>	<b>4.6500e-003</b>		<b>163.0044</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					
Archit. Coating	20.8821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2201	4.5324	5.4950	9.6900e-003		0.2301	0.2301		0.2301	0.2301	0.0000	930.3421	930.3421	0.2053		935.4740
<b>Total</b>	<b>21.1022</b>	<b>4.5324</b>	<b>5.4950</b>	<b>9.6900e-003</b>		<b>0.2301</b>	<b>0.2301</b>		<b>0.2301</b>	<b>0.2301</b>	<b>0.0000</b>	<b>930.3421</b>	<b>930.3421</b>	<b>0.2053</b>		<b>935.4740</b>

NCWRP Expansion - San Diego County APCD Air District, Summer

**3.5 Architectural Coating - 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	0.0692	0.0449	0.5305	1.6300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		162.8882	162.8882	4.6500e-003		163.0044
<b>Total</b>	<b>0.0692</b>	<b>0.0449</b>	<b>0.5305</b>	<b>1.6300e-003</b>	<b>0.1643</b>	<b>1.1300e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>1.0500e-003</b>	<b>0.0446</b>		<b>162.8882</b>	<b>162.8882</b>	<b>4.6500e-003</b>		<b>163.0044</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8933	8.8645	10.1188	0.0162		0.4522	0.4522		0.4174	0.4174		1,559.0015	1,559.0015	0.4910		1,571.2776
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8933</b>	<b>8.8645</b>	<b>10.1188</b>	<b>0.0162</b>		<b>0.4522</b>	<b>0.4522</b>		<b>0.4174</b>	<b>0.4174</b>		<b>1,559.0015</b>	<b>1,559.0015</b>	<b>0.4910</b>		<b>1,571.2776</b>



NCWRP Expansion - San Diego County APCD Air District, Summer

**3.6 Paving - 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	0.0553	0.0360	0.4244	1.3100e-003	0.1314	9.1000e-004	0.1323	0.0349	8.4000e-004	0.0357		130.3105	130.3105	3.7200e-003		130.4035
<b>Total</b>	<b>0.0553</b>	<b>0.0360</b>	<b>0.4244</b>	<b>1.3100e-003</b>	<b>0.1314</b>	<b>9.1000e-004</b>	<b>0.1323</b>	<b>0.0349</b>	<b>8.4000e-004</b>	<b>0.0357</b>		<b>130.3105</b>	<b>130.3105</b>	<b>3.7200e-003</b>		<b>130.4035</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	0.5640	7.5837	10.6296	0.0162		0.4024	0.4024		0.3871	0.3871	0.0000	1,559.0015	1,559.0015	0.4910		1,571.2776
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5640</b>	<b>7.5837</b>	<b>10.6296</b>	<b>0.0162</b>		<b>0.4024</b>	<b>0.4024</b>		<b>0.3871</b>	<b>0.3871</b>	<b>0.0000</b>	<b>1,559.0015</b>	<b>1,559.0015</b>	<b>0.4910</b>		<b>1,571.2776</b>

NCWRP Expansion - San Diego County APCD Air District, Summer

**3.6 Paving - 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	0.0553	0.0360	0.4244	1.3100e-003	0.1314	9.1000e-004	0.1323	0.0349	8.4000e-004	0.0357		130.3105	130.3105	3.7200e-003		130.4035
<b>Total</b>	<b>0.0553</b>	<b>0.0360</b>	<b>0.4244</b>	<b>1.3100e-003</b>	<b>0.1314</b>	<b>9.1000e-004</b>	<b>0.1323</b>	<b>0.0349</b>	<b>8.4000e-004</b>	<b>0.0357</b>		<b>130.3105</b>	<b>130.3105</b>	<b>3.7200e-003</b>		<b>130.4035</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

NCWRP Expansion - San Diego County APCD Air District, 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	0.1928	0.8577	2.6279	9.1200e-003	0.7572	8.6700e-003	0.7659	0.2024	8.1400e-003	0.2105		925.0218	925.0218	0.0465		926.1831
Unmitigated	0.1928	0.8577	2.6279	9.1200e-003	0.7572	8.6700e-003	0.7659	0.2024	8.1400e-003	0.2105		925.0218	925.0218	0.0465		926.1831

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	24.10	83.84	24.10	138,996	138,996
Total	24.10	83.84	24.10	138,996	138,996

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	0.00	0.00	11.70	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N

NCWRP Expansion - San Diego County APCD Air District, Summer

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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	
<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>	

NCWRP Expansion - San Diego County APCD Air District, Summer

**5.2 Energy by Land Use - Natural Gas**

**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					
General Light Industry	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**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

NCWRP Expansion - San Diego County APCD Air District, 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	5.7726	2.3000e-004	0.0248	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0528	0.0528	1.4000e-004		0.0563
Unmitigated	5.7726	2.3000e-004	0.0248	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0528	0.0528	1.4000e-004		0.0563

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	0.6122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3300e-003	2.3000e-004	0.0248	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0528	0.0528	1.4000e-004		0.0563
<b>Total</b>	<b>5.7726</b>	<b>2.3000e-004</b>	<b>0.0248</b>	<b>0.0000</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0528</b>	<b>0.0528</b>	<b>1.4000e-004</b>		<b>0.0563</b>

NCWRP Expansion - San Diego County APCD Air District, 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	0.6122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3300e-003	2.3000e-004	0.0248	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0528	0.0528	1.4000e-004		0.0563
<b>Total</b>	<b>5.7726</b>	<b>2.3000e-004</b>	<b>0.0248</b>	<b>0.0000</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0528</b>	<b>0.0528</b>	<b>1.4000e-004</b>		<b>0.0563</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators

NCWRP Expansion - San Diego County APCD Air District, 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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NCWRP Expansion - San Diego County APCD Air District, Winter

**NCWRP Expansion**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	241.03	1000sqft	5.53	241,034.00	49

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2020
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

NCWRP Expansion - San Diego County APCD Air District, Winter

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description.

Construction Phase - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Off-road Equipment - See Section 7.1.2 for Construction Details.

Grading - See Section 7.1.2 for Construction Details.

Demolition - No demolition of structures.

Trips and VMT - See Section 7.1.2 for Construction Details.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1.

Vehicle Trips - Based on the traffic information study.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Woodstoves -

Consumer Products -

Area Coating - In accordance with SDAPCD Rule 67.0.1.

Landscape Equipment -

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on information provided by the City.

Solid Waste - EPA waste generation of 4.46 lb/person/day.

Construction Off-road Equipment Mitigation - Per MM-AQ-1, all construction equipment must be at least Tier 3.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1.



NCWRP Expansion - San Diego County APCD Air District, Winter

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	107.00
tblConstructionPhase	NumDays	230.00	428.00
tblConstructionPhase	NumDays	20.00	107.00
tblConstructionPhase	NumDays	20.00	150.00
tblConstructionPhase	NumDays	20.00	107.00
tblConstructionPhase	PhaseEndDate	9/30/2018	12/6/2021
tblConstructionPhase	PhaseEndDate	9/30/2018	5/14/2021
tblConstructionPhase	PhaseEndDate	9/30/2018	2/26/2019
tblConstructionPhase	PhaseEndDate	9/30/2018	9/24/2019
tblConstructionPhase	PhaseEndDate	9/30/2018	12/6/2021
tblConstructionPhase	PhaseStartDate	10/1/2018	7/9/2021
tblConstructionPhase	PhaseStartDate	10/1/2018	9/25/2019
tblConstructionPhase	PhaseStartDate	10/1/2018	2/27/2019
tblConstructionPhase	PhaseStartDate	10/1/2018	7/9/2021
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	75.00	0.00
tblGrading	MaterialExported	0.00	1,644.00
tblLandUse	Population	0.00	49.00

NCWRP Expansion - San Diego County APCD Air District, Winter

tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblSolidWaste	SolidWasteGenerationRate	298.88	8.83

## NCWRP Expansion - San Diego County APCD Air District, Winter

tblTripsAndVMT	HaulingTripNumber	206.00	1,009.00
tblTripsAndVMT	WorkerTripNumber	101.00	102.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	28.00	16.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	11.70
tblVehicleTrips	CNW_TTP	13.00	100.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	0.35
tblVehicleTrips	SU_TR	0.68	0.10
tblVehicleTrips	WD_TR	6.97	0.10
tblWater	IndoorWaterUseRate	55,738,187.50	312,000.00

## 2.0 Emissions Summary

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NCWRP Expansion - San Diego County APCD Air District, 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					
2018	3.7959	38.3776	22.8236	0.0402	0.1314	1.9395	2.0709	0.0349	1.8057	1.8406	0.0000	4,006.5389	4,006.5389	1.0714	0.0000	4,033.3235
2019	3.5844	35.8322	22.5279	0.0490	6.2726	1.7958	7.8647	3.3775	1.6705	4.8470	0.0000	4,819.0407	4,819.0407	1.1704	0.0000	4,835.6724
2020	2.8947	25.0823	21.4574	0.0486	1.1087	1.1764	2.2851	0.3002	1.1235	1.4237	0.0000	4,755.6369	4,755.6369	0.6448	0.0000	4,771.7573
2021	22.6187	22.8160	20.8759	0.0482	1.1087	1.0065	2.1151	0.3002	0.9610	1.2612	0.0000	4,718.0308	4,718.0308	0.7042	0.0000	4,733.7548
<b>Maximum</b>	<b>22.6187</b>	<b>38.3776</b>	<b>22.8236</b>	<b>0.0490</b>	<b>6.2726</b>	<b>1.9395</b>	<b>7.8647</b>	<b>3.3775</b>	<b>1.8057</b>	<b>4.8470</b>	<b>0.0000</b>	<b>4,819.0407</b>	<b>4,819.0407</b>	<b>1.1704</b>	<b>0.0000</b>	<b>4,835.6724</b>





NCWRP Expansion - San Diego County APCD Air District, 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	5.7726	2.3000e-004	0.0248	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0528	0.0528	1.4000e-004		0.0563
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	0.1879	0.8903	2.5345	8.6500e-003	0.7572	8.7100e-003	0.7659	0.2024	8.1700e-003	0.2106		877.6934	877.6934	0.0461		878.8465
<b>Total</b>	<b>5.9606</b>	<b>0.8905</b>	<b>2.5593</b>	<b>8.6500e-003</b>	<b>0.7572</b>	<b>8.8000e-003</b>	<b>0.7660</b>	<b>0.2024</b>	<b>8.2600e-003</b>	<b>0.2107</b>		<b>877.7462</b>	<b>877.7462</b>	<b>0.0463</b>	<b>0.0000</b>	<b>878.9028</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	5.7726	2.3000e-004	0.0248	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0528	0.0528	1.4000e-004		0.0563
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	0.1879	0.8903	2.5345	8.6500e-003	0.7572	8.7100e-003	0.7659	0.2024	8.1700e-003	0.2106		877.6934	877.6934	0.0461		878.8465
<b>Total</b>	<b>5.9606</b>	<b>0.8905</b>	<b>2.5593</b>	<b>8.6500e-003</b>	<b>0.7572</b>	<b>8.8000e-003</b>	<b>0.7660</b>	<b>0.2024</b>	<b>8.2600e-003</b>	<b>0.2107</b>		<b>877.7462</b>	<b>877.7462</b>	<b>0.0463</b>	<b>0.0000</b>	<b>878.9028</b>

## NCWRP Expansion - San Diego County APCD Air District, 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

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2018	2/26/2019	5	107	
2	Grading	Grading	2/27/2019	9/24/2019	5	150	
3	Building Construction	Building Construction	9/25/2019	5/14/2021	5	428	
4	Architectural Coating	Architectural Coating	7/9/2021	12/6/2021	5	107	
5	Paving	Paving	7/9/2021	12/6/2021	5	107	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 361,551; Non-Residential Outdoor: 120,517; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## NCWRP Expansion - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Architectural Coating	Cranes	1	8.00	231	0.29
Paving	Dumpers/Tenders	1	8.00	16	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
	Concrete/Industrial Saws	1	8.00	81	0.73
	Dumpers/Tenders	1	8.00	16	0.38
Paving	Paving Equipment	2	8.00	132	0.36
	Excavators	1	8.00	158	0.38
	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Dumpers/Tenders	2	8.00	16	0.38
Grading	Excavators	2	8.00	158	0.38
Grading	Plate Compactors	2	8.00	8	0.43
Building Construction	Welders	1	8.00	46	0.45
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

NCWRP Expansion - San Diego County APCD Air District, Winter

**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
Architectural Coating	2	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	102.00	40.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	16.00	0.00	1,009.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Demolition - 2018**

**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	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>	<b>0.0388</b>		<b>1.9386</b>	<b>1.9386</b>		<b>1.8048</b>	<b>1.8048</b>		<b>3,871.7665</b>	<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

NCWRP Expansion - San Diego County APCD Air District, Winter

**3.2 Demolition - 2018**

**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	0.0769	0.0551	0.5196	1.3500e-003	0.1314	9.5000e-004	0.1324	0.0349	8.7000e-004	0.0357		134.7724	134.7724	4.6700e-003		134.8891
<b>Total</b>	<b>0.0769</b>	<b>0.0551</b>	<b>0.5196</b>	<b>1.3500e-003</b>	<b>0.1314</b>	<b>9.5000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.7000e-004</b>	<b>0.0357</b>		<b>134.7724</b>	<b>134.7724</b>	<b>4.6700e-003</b>		<b>134.8891</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	1.4031	22.5716	24.5968	0.0388		1.0913	1.0913		1.0669	1.0669	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>1.4031</b>	<b>22.5716</b>	<b>24.5968</b>	<b>0.0388</b>		<b>1.0913</b>	<b>1.0913</b>		<b>1.0669</b>	<b>1.0669</b>	<b>0.0000</b>	<b>3,871.7665</b>	<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

NCWRP Expansion - San Diego County APCD Air District, Winter

**3.2 Demolition - 2018**

**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	0.0769	0.0551	0.5196	1.3500e-003	0.1314	9.5000e-004	0.1324	0.0349	8.7000e-004	0.0357		134.7724	134.7724	4.6700e-003		134.8891
<b>Total</b>	<b>0.0769</b>	<b>0.0551</b>	<b>0.5196</b>	<b>1.3500e-003</b>	<b>0.1314</b>	<b>9.5000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.7000e-004</b>	<b>0.0357</b>		<b>134.7724</b>	<b>134.7724</b>	<b>4.6700e-003</b>		<b>134.8891</b>

**3.2 Demolition - 2019**

**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	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>		<b>1.7949</b>	<b>1.7949</b>		<b>1.6697</b>	<b>1.6697</b>		<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>

NCWRP Expansion - San Diego County APCD Air District, Winter

**3.2 Demolition - 2019**

**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	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.0711</b>	<b>0.0492</b>	<b>0.4678</b>	<b>1.3100e-003</b>	<b>0.1314</b>	<b>9.4000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.6000e-004</b>	<b>0.0357</b>		<b>130.7062</b>	<b>130.7062</b>	<b>4.2200e-003</b>		<b>130.8116</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	1.3873	22.3288	24.5506	0.0388		1.0804	1.0804		1.0569	1.0569	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>1.3873</b>	<b>22.3288</b>	<b>24.5506</b>	<b>0.0388</b>		<b>1.0804</b>	<b>1.0804</b>		<b>1.0569</b>	<b>1.0569</b>	<b>0.0000</b>	<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>

NCWRP Expansion - San Diego County APCD Air District, Winter

**3.2 Demolition - 2019**

**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	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.0711</b>	<b>0.0492</b>	<b>0.4678</b>	<b>1.3100e-003</b>	<b>0.1314</b>	<b>9.4000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.6000e-004</b>	<b>0.0357</b>		<b>130.7062</b>	<b>130.7062</b>	<b>4.2200e-003</b>		<b>130.8116</b>

**3.3 Grading - 2019**

**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					6.0236	0.0000	6.0236	3.3105	0.0000	3.3105			0.0000			0.0000
Off-Road	3.0711	32.4903	20.5118	0.0373		1.5833	1.5833		1.4611	1.4611		3,643.8830	3,643.8830	1.1128		3,671.7017
<b>Total</b>	<b>3.0711</b>	<b>32.4903</b>	<b>20.5118</b>	<b>0.0373</b>	<b>6.0236</b>	<b>1.5833</b>	<b>7.6070</b>	<b>3.3105</b>	<b>1.4611</b>	<b>4.7716</b>		<b>3,643.8830</b>	<b>3,643.8830</b>	<b>1.1128</b>		<b>3,671.7017</b>



NCWRP Expansion - San Diego County APCD Air District, Winter

**3.3 Grading - 2019**

**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	0.0600	2.0412	0.4674	5.2500e-003	0.1175	7.8000e-003	0.1253	0.0322	7.4700e-003	0.0397		572.3780	572.3780	0.0534		573.7126
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	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.1311</b>	<b>2.0905</b>	<b>0.9352</b>	<b>6.5600e-003</b>	<b>0.2490</b>	<b>8.7400e-003</b>	<b>0.2577</b>	<b>0.0671</b>	<b>8.3300e-003</b>	<b>0.0754</b>		<b>703.0842</b>	<b>703.0842</b>	<b>0.0576</b>		<b>704.5243</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					2.7106	0.0000	2.7106	1.4897	0.0000	1.4897			0.0000			0.0000
Off-Road	1.7634	24.1281	21.1198	0.0373		1.1540	1.1540		1.0972	1.0972	0.0000	3,643.8830	3,643.8830	1.1128		3,671.7017
<b>Total</b>	<b>1.7634</b>	<b>24.1281</b>	<b>21.1198</b>	<b>0.0373</b>	<b>2.7106</b>	<b>1.1540</b>	<b>3.8646</b>	<b>1.4897</b>	<b>1.0972</b>	<b>2.5869</b>	<b>0.0000</b>	<b>3,643.8830</b>	<b>3,643.8830</b>	<b>1.1128</b>		<b>3,671.7017</b>

NCWRP Expansion - San Diego County APCD Air District, Winter

**3.3 Grading - 2019**

**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	0.0600	2.0412	0.4674	5.2500e-003	0.1175	7.8000e-003	0.1253	0.0322	7.4700e-003	0.0397		572.3780	572.3780	0.0534		573.7126
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	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.1311</b>	<b>2.0905</b>	<b>0.9352</b>	<b>6.5600e-003</b>	<b>0.2490</b>	<b>8.7400e-003</b>	<b>0.2577</b>	<b>0.0671</b>	<b>8.3300e-003</b>	<b>0.0754</b>		<b>703.0842</b>	<b>703.0842</b>	<b>0.0576</b>		<b>704.5243</b>

**3.4 Building Construction - 2019**

**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	2.5707	22.1846	17.7738	0.0298		1.3181	1.3181		1.2589	1.2589		2,831.7876	2,831.7876	0.5411		2,845.3160
<b>Total</b>	<b>2.5707</b>	<b>22.1846</b>	<b>17.7738</b>	<b>0.0298</b>		<b>1.3181</b>	<b>1.3181</b>		<b>1.2589</b>	<b>1.2589</b>		<b>2,831.7876</b>	<b>2,831.7876</b>	<b>0.5411</b>		<b>2,845.3160</b>

NCWRP Expansion - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2019**

**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	0.1920	4.9635	1.4196	0.0108	0.2708	0.0351	0.3059	0.0780	0.0336	0.1115		1,154.0010	1,154.0010	0.0973		1,156.4323
Worker	0.4530	0.3139	2.9824	8.3700e-003	0.8379	5.9700e-003	0.8439	0.2223	5.5000e-003	0.2278		833.2520	833.2520	0.0269		833.9242
<b>Total</b>	<b>0.6450</b>	<b>5.2774</b>	<b>4.4020</b>	<b>0.0191</b>	<b>1.1087</b>	<b>0.0411</b>	<b>1.1498</b>	<b>0.3002</b>	<b>0.0391</b>	<b>0.3393</b>		<b>1,987.2530</b>	<b>1,987.2530</b>	<b>0.1241</b>		<b>1,990.3564</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	1.4950	17.6580	18.2138	0.0298		1.1206	1.1206		1.0847	1.0847	0.0000	2,831.7876	2,831.7876	0.5411		2,845.3160
<b>Total</b>	<b>1.4950</b>	<b>17.6580</b>	<b>18.2138</b>	<b>0.0298</b>		<b>1.1206</b>	<b>1.1206</b>		<b>1.0847</b>	<b>1.0847</b>	<b>0.0000</b>	<b>2,831.7876</b>	<b>2,831.7876</b>	<b>0.5411</b>		<b>2,845.3160</b>

NCWRP Expansion - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2019**

**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	0.1920	4.9635	1.4196	0.0108	0.2708	0.0351	0.3059	0.0780	0.0336	0.1115		1,154.0010	1,154.0010	0.0973		1,156.4323
Worker	0.4530	0.3139	2.9824	8.3700e-003	0.8379	5.9700e-003	0.8439	0.2223	5.5000e-003	0.2278		833.2520	833.2520	0.0269		833.9242
<b>Total</b>	<b>0.6450</b>	<b>5.2774</b>	<b>4.4020</b>	<b>0.0191</b>	<b>1.1087</b>	<b>0.0411</b>	<b>1.1498</b>	<b>0.3002</b>	<b>0.0391</b>	<b>0.3393</b>		<b>1,987.2530</b>	<b>1,987.2530</b>	<b>0.1241</b>		<b>1,990.3564</b>

**3.4 Building Construction - 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					
Off-Road	2.3142	20.2925	17.4563	0.0298		1.1480	1.1480		1.0966	1.0966		2,802.8335	2,802.8335	0.5283		2,816.0414
<b>Total</b>	<b>2.3142</b>	<b>20.2925</b>	<b>17.4563</b>	<b>0.0298</b>		<b>1.1480</b>	<b>1.1480</b>		<b>1.0966</b>	<b>1.0966</b>		<b>2,802.8335</b>	<b>2,802.8335</b>	<b>0.5283</b>		<b>2,816.0414</b>

NCWRP Expansion - San Diego County APCD Air District, Winter

**3.4 Building Construction - 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	0.1566	4.5067	1.2752	0.0107	0.2708	0.0225	0.2933	0.0780	0.0215	0.0995		1,145.8489	1,145.8489	0.0922		1,148.1539
Worker	0.4239	0.2832	2.7259	8.1000e-003	0.8379	5.8800e-003	0.8438	0.2223	5.4200e-003	0.2277		806.9546	806.9546	0.0243		807.5620
<b>Total</b>	<b>0.5805</b>	<b>4.7898</b>	<b>4.0011</b>	<b>0.0188</b>	<b>1.1087</b>	<b>0.0284</b>	<b>1.1371</b>	<b>0.3002</b>	<b>0.0269</b>	<b>0.3271</b>		<b>1,952.8035</b>	<b>1,952.8035</b>	<b>0.1165</b>		<b>1,955.7159</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	1.3848	16.7928	18.1373	0.0298		1.0319	1.0319		1.0008	1.0008	0.0000	2,802.8334	2,802.8334	0.5283		2,816.0414
<b>Total</b>	<b>1.3848</b>	<b>16.7928</b>	<b>18.1373</b>	<b>0.0298</b>		<b>1.0319</b>	<b>1.0319</b>		<b>1.0008</b>	<b>1.0008</b>	<b>0.0000</b>	<b>2,802.8334</b>	<b>2,802.8334</b>	<b>0.5283</b>		<b>2,816.0414</b>

NCWRP Expansion - San Diego County APCD Air District, Winter

**3.4 Building Construction - 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	0.1566	4.5067	1.2752	0.0107	0.2708	0.0225	0.2933	0.0780	0.0215	0.0995		1,145.8489	1,145.8489	0.0922		1,148.1539
Worker	0.4239	0.2832	2.7259	8.1000e-003	0.8379	5.8800e-003	0.8438	0.2223	5.4200e-003	0.2277		806.9546	806.9546	0.0243		807.5620
<b>Total</b>	<b>0.5805</b>	<b>4.7898</b>	<b>4.0011</b>	<b>0.0188</b>	<b>1.1087</b>	<b>0.0284</b>	<b>1.1371</b>	<b>0.3002</b>	<b>0.0269</b>	<b>0.3271</b>		<b>1,952.8035</b>	<b>1,952.8035</b>	<b>0.1165</b>		<b>1,955.7159</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0839	18.4963	17.1770	0.0298		0.9918	0.9918		0.9471	0.9471		2,802.9150	2,802.9150	0.5181		2,815.8679
<b>Total</b>	<b>2.0839</b>	<b>18.4963</b>	<b>17.1770</b>	<b>0.0298</b>		<b>0.9918</b>	<b>0.9918</b>		<b>0.9471</b>	<b>0.9471</b>		<b>2,802.9150</b>	<b>2,802.9150</b>	<b>0.5181</b>		<b>2,815.8679</b>

NCWRP Expansion - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1275	4.0623	1.1558	0.0106	0.2708	8.9000e-003	0.2797	0.0780	8.5100e-003	0.0865		1,135.2772	1,135.2772	0.0884		1,137.4882
Worker	0.4001	0.2573	2.5431	7.8300e-003	0.8379	5.7900e-003	0.8437	0.2223	5.3300e-003	0.2276		779.8385	779.8385	0.0224		780.3986
<b>Total</b>	<b>0.5276</b>	<b>4.3196</b>	<b>3.6989</b>	<b>0.0184</b>	<b>1.1087</b>	<b>0.0147</b>	<b>1.1234</b>	<b>0.3002</b>	<b>0.0138</b>	<b>0.3140</b>		<b>1,915.1157</b>	<b>1,915.1157</b>	<b>0.1108</b>		<b>1,917.8869</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	1.2825	15.9688	18.0647	0.0298		0.9486	0.9486		0.9218	0.9218	0.0000	2,802.9150	2,802.9150	0.5181		2,815.8679
<b>Total</b>	<b>1.2825</b>	<b>15.9688</b>	<b>18.0647</b>	<b>0.0298</b>		<b>0.9486</b>	<b>0.9486</b>		<b>0.9218</b>	<b>0.9218</b>	<b>0.0000</b>	<b>2,802.9150</b>	<b>2,802.9150</b>	<b>0.5181</b>		<b>2,815.8679</b>

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**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1275	4.0623	1.1558	0.0106	0.2708	8.9000e-003	0.2797	0.0780	8.5100e-003	0.0865		1,135.2772	1,135.2772	0.0884		1,137.4882
Worker	0.4001	0.2573	2.5431	7.8300e-003	0.8379	5.7900e-003	0.8437	0.2223	5.3300e-003	0.2276		779.8385	779.8385	0.0224		780.3986
<b>Total</b>	<b>0.5276</b>	<b>4.3196</b>	<b>3.6989</b>	<b>0.0184</b>	<b>1.1087</b>	<b>0.0147</b>	<b>1.1234</b>	<b>0.3002</b>	<b>0.0138</b>	<b>0.3140</b>		<b>1,915.1157</b>	<b>1,915.1157</b>	<b>0.1108</b>		<b>1,917.8869</b>

**3.5 Architectural Coating - 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	20.8821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7021	6.8534	4.3933	9.6900e-003		0.3211	0.3211		0.3054	0.3054		930.3421	930.3421	0.2053		935.4740
<b>Total</b>	<b>21.5842</b>	<b>6.8534</b>	<b>4.3933</b>	<b>9.6900e-003</b>		<b>0.3211</b>	<b>0.3211</b>		<b>0.3054</b>	<b>0.3054</b>		<b>930.3421</b>	<b>930.3421</b>	<b>0.2053</b>		<b>935.4740</b>



NCWRP Expansion - San Diego County APCD Air District, Winter

**3.5 Architectural Coating - 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	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		152.9095	152.9095	4.3900e-003		153.0193
<b>Total</b>	<b>0.0785</b>	<b>0.0505</b>	<b>0.4987</b>	<b>1.5300e-003</b>	<b>0.1643</b>	<b>1.1300e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>1.0500e-003</b>	<b>0.0446</b>		<b>152.9095</b>	<b>152.9095</b>	<b>4.3900e-003</b>		<b>153.0193</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					
Archit. Coating	20.8821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2201	4.5324	5.4950	9.6900e-003		0.2301	0.2301		0.2301	0.2301	0.0000	930.3421	930.3421	0.2053		935.4740
<b>Total</b>	<b>21.1022</b>	<b>4.5324</b>	<b>5.4950</b>	<b>9.6900e-003</b>		<b>0.2301</b>	<b>0.2301</b>		<b>0.2301</b>	<b>0.2301</b>	<b>0.0000</b>	<b>930.3421</b>	<b>930.3421</b>	<b>0.2053</b>		<b>935.4740</b>

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**3.5 Architectural Coating - 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	0.0785	0.0505	0.4987	1.5300e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0500e-003	0.0446		152.9095	152.9095	4.3900e-003		153.0193
<b>Total</b>	<b>0.0785</b>	<b>0.0505</b>	<b>0.4987</b>	<b>1.5300e-003</b>	<b>0.1643</b>	<b>1.1300e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>1.0500e-003</b>	<b>0.0446</b>		<b>152.9095</b>	<b>152.9095</b>	<b>4.3900e-003</b>		<b>153.0193</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8933	8.8645	10.1188	0.0162		0.4522	0.4522		0.4174	0.4174		1,559.0015	1,559.0015	0.4910		1,571.2776
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8933</b>	<b>8.8645</b>	<b>10.1188</b>	<b>0.0162</b>		<b>0.4522</b>	<b>0.4522</b>		<b>0.4174</b>	<b>0.4174</b>		<b>1,559.0015</b>	<b>1,559.0015</b>	<b>0.4910</b>		<b>1,571.2776</b>

NCWRP Expansion - San Diego County APCD Air District, Winter

**3.6 Paving - 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	0.0628	0.0404	0.3989	1.2300e-003	0.1314	9.1000e-004	0.1323	0.0349	8.4000e-004	0.0357		122.3276	122.3276	3.5100e-003		122.4155
<b>Total</b>	<b>0.0628</b>	<b>0.0404</b>	<b>0.3989</b>	<b>1.2300e-003</b>	<b>0.1314</b>	<b>9.1000e-004</b>	<b>0.1323</b>	<b>0.0349</b>	<b>8.4000e-004</b>	<b>0.0357</b>		<b>122.3276</b>	<b>122.3276</b>	<b>3.5100e-003</b>		<b>122.4155</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	0.5640	7.5837	10.6296	0.0162		0.4024	0.4024		0.3871	0.3871	0.0000	1,559.0015	1,559.0015	0.4910		1,571.2776
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5640</b>	<b>7.5837</b>	<b>10.6296</b>	<b>0.0162</b>		<b>0.4024</b>	<b>0.4024</b>		<b>0.3871</b>	<b>0.3871</b>	<b>0.0000</b>	<b>1,559.0015</b>	<b>1,559.0015</b>	<b>0.4910</b>		<b>1,571.2776</b>

NCWRP Expansion - San Diego County APCD Air District, Winter

**3.6 Paving - 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	0.0628	0.0404	0.3989	1.2300e-003	0.1314	9.1000e-004	0.1323	0.0349	8.4000e-004	0.0357		122.3276	122.3276	3.5100e-003		122.4155
<b>Total</b>	<b>0.0628</b>	<b>0.0404</b>	<b>0.3989</b>	<b>1.2300e-003</b>	<b>0.1314</b>	<b>9.1000e-004</b>	<b>0.1323</b>	<b>0.0349</b>	<b>8.4000e-004</b>	<b>0.0357</b>		<b>122.3276</b>	<b>122.3276</b>	<b>3.5100e-003</b>		<b>122.4155</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

NCWRP Expansion - San Diego County APCD Air District, 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	0.1879	0.8903	2.5345	8.6500e-003	0.7572	8.7100e-003	0.7659	0.2024	8.1700e-003	0.2106		877.6934	877.6934	0.0461		878.8465
Unmitigated	0.1879	0.8903	2.5345	8.6500e-003	0.7572	8.7100e-003	0.7659	0.2024	8.1700e-003	0.2106		877.6934	877.6934	0.0461		878.8465

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	24.10	83.84	24.10	138,996	138,996
Total	24.10	83.84	24.10	138,996	138,996

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	0.00	0.00	11.70	0.00	0.00	100.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N

NCWRP Expansion - San Diego County APCD Air District, Winter

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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	
<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>	

NCWRP Expansion - San Diego County APCD Air District, Winter

**5.2 Energy by Land Use - Natural Gas**

**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					
General Light Industry	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**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

NCWRP Expansion - San Diego County APCD Air District, 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	5.7726	2.3000e-004	0.0248	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0528	0.0528	1.4000e-004		0.0563
Unmitigated	5.7726	2.3000e-004	0.0248	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0528	0.0528	1.4000e-004		0.0563

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	0.6122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3300e-003	2.3000e-004	0.0248	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0528	0.0528	1.4000e-004		0.0563
<b>Total</b>	<b>5.7726</b>	<b>2.3000e-004</b>	<b>0.0248</b>	<b>0.0000</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0528</b>	<b>0.0528</b>	<b>1.4000e-004</b>		<b>0.0563</b>



NCWRP Expansion - San Diego County APCD Air District, 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	0.6122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.1581					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3300e-003	2.3000e-004	0.0248	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0528	0.0528	1.4000e-004		0.0563
<b>Total</b>	<b>5.7726</b>	<b>2.3000e-004</b>	<b>0.0248</b>	<b>0.0000</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0528</b>	<b>0.0528</b>	<b>1.4000e-004</b>		<b>0.0563</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators

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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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**North City Pump Station**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	5.50	1000sqft	0.13	5,500.00	1

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

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Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1 for interior and exterior coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SDAPCD Rule 67.0.1 for interior and exterior architectural coatings.

Landscape Equipment - There is no landscaping for this project.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - EPA waste generation of 4.46 lb/person/day

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1 for interior and exterior architectural coatings. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.



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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	100.00	230.00
tblConstructionPhase	NumDays	2.00	15.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	Population	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblSolidWaste	SolidWasteGenerationRate	6.82	0.29
tblTripsAndVMT	VendorTripNumber	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00

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tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	2.00	26.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	1,271,875.00	10,400.00

## 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	5-21-2019	8-20-2019	1.0694	0.7455
2	8-21-2019	11-20-2019	0.6779	0.4609
3	11-21-2019	2-20-2020	0.6472	0.4605
4	2-21-2020	5-20-2020	0.6084	0.4496
5	5-21-2020	8-20-2020	0.3769	0.2823
		Highest	1.0694	0.7455

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	0.0240	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0589	0.0000	0.0589	3.4800e-003	0.0000	0.1458
Water						0.0000	0.0000		0.0000	0.0000	3.3000e-003	0.0443	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>	<b>0.0240</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0622</b>	<b>0.0444</b>	<b>0.1065</b>	<b>3.8200e-003</b>	<b>1.0000e-005</b>	<b>0.2045</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	0.0224	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0589	0.0000	0.0589	3.4800e-003	0.0000	0.1458
Water						0.0000	0.0000		0.0000	0.0000	3.3000e-003	0.0443	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>	<b>0.0224</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0622</b>	<b>0.0443</b>	<b>0.1065</b>	<b>3.8200e-003</b>	<b>1.0000e-005</b>	<b>0.2045</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	6.66	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.05	0.00	0.00	0.02

**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	Grading	5/21/2019	6/10/2019	5	15	
2	Trenching	Trenching	6/11/2019	8/19/2019	5	50	
3	Building Construction	Building Construction	8/20/2019	7/6/2020	5	230	
4	Paving	Paving	7/7/2020	7/13/2020	5	5	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Concrete/Industrial Saws	1	8.00	81	0.73
Trenching	Excavators	2	8.00	158	0.38
Trenching	Off-Highway Trucks	1	8.00	402	0.38
Trenching	Rollers	2	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Welders	2	8.00	46	0.45
Building Construction	Aerial Lifts	2	8.00	63	0.31
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Crushing/Proc. Equipment	1	8.00	85	0.78
Paving	Off-Highway Trucks	1	8.00	402	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**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	5	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	10	26.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	26.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Grading - 2019**

**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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0225	0.2363	0.1233	2.1000e-004		0.0121	0.0121		0.0112	0.0112	0.0000	19.1670	19.1670	6.0600e-003	0.0000	19.3186
<b>Total</b>	<b>0.0225</b>	<b>0.2363</b>	<b>0.1233</b>	<b>2.1000e-004</b>	<b>0.0903</b>	<b>0.0121</b>	<b>0.1025</b>	<b>0.0497</b>	<b>0.0112</b>	<b>0.0608</b>	<b>0.0000</b>	<b>19.1670</b>	<b>19.1670</b>	<b>6.0600e-003</b>	<b>0.0000</b>	<b>19.3186</b>

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**3.2 Grading - 2019**

**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	4.1000e-004	3.2000e-004	3.0700e-003	1.0000e-005	8.4000e-004	1.0000e-005	8.5000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7859	0.7859	3.0000e-005	0.0000	0.7866
<b>Total</b>	<b>4.1000e-004</b>	<b>3.2000e-004</b>	<b>3.0700e-003</b>	<b>1.0000e-005</b>	<b>8.4000e-004</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.7859</b>	<b>0.7859</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.7866</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					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.2300e-003	0.1051	0.1325	2.1000e-004		5.0100e-003	5.0100e-003		5.0100e-003	5.0100e-003	0.0000	19.1670	19.1670	6.0600e-003	0.0000	19.3186
<b>Total</b>	<b>5.2300e-003</b>	<b>0.1051</b>	<b>0.1325</b>	<b>2.1000e-004</b>	<b>0.0407</b>	<b>5.0100e-003</b>	<b>0.0457</b>	<b>0.0223</b>	<b>5.0100e-003</b>	<b>0.0274</b>	<b>0.0000</b>	<b>19.1670</b>	<b>19.1670</b>	<b>6.0600e-003</b>	<b>0.0000</b>	<b>19.3186</b>

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**3.2 Grading - 2019**

**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	4.1000e-004	3.2000e-004	3.0700e-003	1.0000e-005	8.4000e-004	1.0000e-005	8.5000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7859	0.7859	3.0000e-005	0.0000	0.7866
<b>Total</b>	<b>4.1000e-004</b>	<b>3.2000e-004</b>	<b>3.0700e-003</b>	<b>1.0000e-005</b>	<b>8.4000e-004</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.7859</b>	<b>0.7859</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.7866</b>

**3.3 Trenching - 2019**

**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	0.0846	0.7137	0.6565	1.1600e-003		0.0389	0.0389		0.0366	0.0366	0.0000	101.4245	101.4245	0.0274	0.0000	102.1090
<b>Total</b>	<b>0.0846</b>	<b>0.7137</b>	<b>0.6565</b>	<b>1.1600e-003</b>		<b>0.0389</b>	<b>0.0389</b>		<b>0.0366</b>	<b>0.0366</b>	<b>0.0000</b>	<b>101.4245</b>	<b>101.4245</b>	<b>0.0274</b>	<b>0.0000</b>	<b>102.1090</b>

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**3.3 Trenching - 2019**

**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	2.5600e-003	1.9700e-003	0.0190	5.0000e-005	5.2100e-003	4.0000e-005	5.2500e-003	1.3900e-003	4.0000e-005	1.4200e-003	0.0000	4.8652	4.8652	1.6000e-004	0.0000	4.8691
<b>Total</b>	<b>2.5600e-003</b>	<b>1.9700e-003</b>	<b>0.0190</b>	<b>5.0000e-005</b>	<b>5.2100e-003</b>	<b>4.0000e-005</b>	<b>5.2500e-003</b>	<b>1.3900e-003</b>	<b>4.0000e-005</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>4.8652</b>	<b>4.8652</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>4.8691</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	0.0299	0.5952	0.7586	1.1600e-003		0.0332	0.0332		0.0332	0.0332	0.0000	101.4244	101.4244	0.0274	0.0000	102.1089
<b>Total</b>	<b>0.0299</b>	<b>0.5952</b>	<b>0.7586</b>	<b>1.1600e-003</b>		<b>0.0332</b>	<b>0.0332</b>		<b>0.0332</b>	<b>0.0332</b>	<b>0.0000</b>	<b>101.4244</b>	<b>101.4244</b>	<b>0.0274</b>	<b>0.0000</b>	<b>102.1089</b>



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**3.3 Trenching - 2019**

**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	2.5600e-003	1.9700e-003	0.0190	5.0000e-005	5.2100e-003	4.0000e-005	5.2500e-003	1.3900e-003	4.0000e-005	1.4200e-003	0.0000	4.8652	4.8652	1.6000e-004	0.0000	4.8691
<b>Total</b>	<b>2.5600e-003</b>	<b>1.9700e-003</b>	<b>0.0190</b>	<b>5.0000e-005</b>	<b>5.2100e-003</b>	<b>4.0000e-005</b>	<b>5.2500e-003</b>	<b>1.3900e-003</b>	<b>4.0000e-005</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>4.8652</b>	<b>4.8652</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>4.8691</b>

**3.4 Building Construction - 2019**

**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	0.1025	0.8665	0.7052	1.1000e-003		0.0486	0.0486		0.0455	0.0455	0.0000	95.2979	95.2979	0.0275	0.0000	95.9843
<b>Total</b>	<b>0.1025</b>	<b>0.8665</b>	<b>0.7052</b>	<b>1.1000e-003</b>		<b>0.0486</b>	<b>0.0486</b>		<b>0.0455</b>	<b>0.0455</b>	<b>0.0000</b>	<b>95.2979</b>	<b>95.2979</b>	<b>0.0275</b>	<b>0.0000</b>	<b>95.9843</b>

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**3.4 Building Construction - 2019**

**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	4.5000e-004	0.0121	3.2400e-003	3.0000e-005	6.4000e-004	8.0000e-005	7.2000e-004	1.8000e-004	8.0000e-005	2.6000e-004	0.0000	2.5505	2.5505	2.0000e-004	0.0000	2.5556
Worker	4.9200e-003	3.7800e-003	0.0365	1.0000e-004	0.0100	7.0000e-005	0.0101	2.6600e-003	7.0000e-005	2.7300e-003	0.0000	9.3412	9.3412	3.0000e-004	0.0000	9.3488
<b>Total</b>	<b>5.3700e-003</b>	<b>0.0158</b>	<b>0.0398</b>	<b>1.3000e-004</b>	<b>0.0107</b>	<b>1.5000e-004</b>	<b>0.0108</b>	<b>2.8400e-003</b>	<b>1.5000e-004</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>11.8918</b>	<b>11.8918</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>11.9044</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	0.0313	0.6208	0.7327	1.1000e-003		0.0377	0.0377		0.0377	0.0377	0.0000	95.2978	95.2978	0.0275	0.0000	95.9842
<b>Total</b>	<b>0.0313</b>	<b>0.6208</b>	<b>0.7327</b>	<b>1.1000e-003</b>		<b>0.0377</b>	<b>0.0377</b>		<b>0.0377</b>	<b>0.0377</b>	<b>0.0000</b>	<b>95.2978</b>	<b>95.2978</b>	<b>0.0275</b>	<b>0.0000</b>	<b>95.9842</b>

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**3.4 Building Construction - 2019**

**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	4.5000e-004	0.0121	3.2400e-003	3.0000e-005	6.4000e-004	8.0000e-005	7.2000e-004	1.8000e-004	8.0000e-005	2.6000e-004	0.0000	2.5505	2.5505	2.0000e-004	0.0000	2.5556
Worker	4.9200e-003	3.7800e-003	0.0365	1.0000e-004	0.0100	7.0000e-005	0.0101	2.6600e-003	7.0000e-005	2.7300e-003	0.0000	9.3412	9.3412	3.0000e-004	0.0000	9.3488
<b>Total</b>	<b>5.3700e-003</b>	<b>0.0158</b>	<b>0.0398</b>	<b>1.3000e-004</b>	<b>0.0107</b>	<b>1.5000e-004</b>	<b>0.0108</b>	<b>2.8400e-003</b>	<b>1.5000e-004</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>11.8918</b>	<b>11.8918</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>11.9044</b>

**3.4 Building Construction - 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					
Off-Road	0.1288	1.1124	0.9629	1.5400e-003		0.0592	0.0592		0.0554	0.0554	0.0000	130.6728	130.6728	0.0378	0.0000	131.6186
<b>Total</b>	<b>0.1288</b>	<b>1.1124</b>	<b>0.9629</b>	<b>1.5400e-003</b>		<b>0.0592</b>	<b>0.0592</b>		<b>0.0554</b>	<b>0.0554</b>	<b>0.0000</b>	<b>130.6728</b>	<b>130.6728</b>	<b>0.0378</b>	<b>0.0000</b>	<b>131.6186</b>

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**3.4 Building Construction - 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	5.1000e-004	0.0153	4.0600e-003	4.0000e-005	8.9000e-004	7.0000e-005	9.6000e-004	2.6000e-004	7.0000e-005	3.3000e-004	0.0000	3.5357	3.5357	2.7000e-004	0.0000	3.5425
Worker	6.4200e-003	4.7500e-003	0.0466	1.4000e-004	0.0140	1.0000e-004	0.0141	3.7100e-003	9.0000e-005	3.8000e-003	0.0000	12.6273	12.6273	3.8000e-004	0.0000	12.6368
<b>Total</b>	<b>6.9300e-003</b>	<b>0.0200</b>	<b>0.0507</b>	<b>1.8000e-004</b>	<b>0.0149</b>	<b>1.7000e-004</b>	<b>0.0150</b>	<b>3.9700e-003</b>	<b>1.6000e-004</b>	<b>4.1300e-003</b>	<b>0.0000</b>	<b>16.1631</b>	<b>16.1631</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>16.1793</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	0.0437	0.8665	1.0227	1.5400e-003		0.0526	0.0526		0.0526	0.0526	0.0000	130.6726	130.6726	0.0378	0.0000	131.6184
<b>Total</b>	<b>0.0437</b>	<b>0.8665</b>	<b>1.0227</b>	<b>1.5400e-003</b>		<b>0.0526</b>	<b>0.0526</b>		<b>0.0526</b>	<b>0.0526</b>	<b>0.0000</b>	<b>130.6726</b>	<b>130.6726</b>	<b>0.0378</b>	<b>0.0000</b>	<b>131.6184</b>

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**3.4 Building Construction - 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	5.1000e-004	0.0153	4.0600e-003	4.0000e-005	8.9000e-004	7.0000e-005	9.6000e-004	2.6000e-004	7.0000e-005	3.3000e-004	0.0000	3.5357	3.5357	2.7000e-004	0.0000	3.5425
Worker	6.4200e-003	4.7500e-003	0.0466	1.4000e-004	0.0140	1.0000e-004	0.0141	3.7100e-003	9.0000e-005	3.8000e-003	0.0000	12.6273	12.6273	3.8000e-004	0.0000	12.6368
<b>Total</b>	<b>6.9300e-003</b>	<b>0.0200</b>	<b>0.0507</b>	<b>1.8000e-004</b>	<b>0.0149</b>	<b>1.7000e-004</b>	<b>0.0150</b>	<b>3.9700e-003</b>	<b>1.6000e-004</b>	<b>4.1300e-003</b>	<b>0.0000</b>	<b>16.1631</b>	<b>16.1631</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>16.1793</b>

**3.5 Paving - 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					
Off-Road	5.7900e-003	0.0533	0.0485	9.0000e-005		2.8500e-003	2.8500e-003		2.6700e-003	2.6700e-003	0.0000	7.9562	7.9562	2.2000e-003	0.0000	8.0112
Paving	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>5.7900e-003</b>	<b>0.0533</b>	<b>0.0485</b>	<b>9.0000e-005</b>		<b>2.8500e-003</b>	<b>2.8500e-003</b>		<b>2.6700e-003</b>	<b>2.6700e-003</b>	<b>0.0000</b>	<b>7.9562</b>	<b>7.9562</b>	<b>2.2000e-003</b>	<b>0.0000</b>	<b>8.0112</b>

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**3.5 Paving - 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	1.7000e-004	1.2000e-004	1.2000e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3262	0.3262	1.0000e-005	0.0000	0.3264
<b>Total</b>	<b>1.7000e-004</b>	<b>1.2000e-004</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3262</b>	<b>0.3262</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3264</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	2.1500e-003	0.0452	0.0589	9.0000e-005		2.5500e-003	2.5500e-003		2.5500e-003	2.5500e-003	0.0000	7.9562	7.9562	2.2000e-003	0.0000	8.0111
Paving	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>2.1500e-003</b>	<b>0.0452</b>	<b>0.0589</b>	<b>9.0000e-005</b>		<b>2.5500e-003</b>	<b>2.5500e-003</b>		<b>2.5500e-003</b>	<b>2.5500e-003</b>	<b>0.0000</b>	<b>7.9562</b>	<b>7.9562</b>	<b>2.2000e-003</b>	<b>0.0000</b>	<b>8.0111</b>

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**3.5 Paving - 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	1.7000e-004	1.2000e-004	1.2000e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3262	0.3262	1.0000e-005	0.0000	0.3264
<b>Total</b>	<b>1.7000e-004</b>	<b>1.2000e-004</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3262</b>	<b>0.3262</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3264</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

5.0 Energy Detail

Historical Energy Use: N





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**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr					
General Light Industry	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	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>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

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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	0.0224	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005
Unmitigated	0.0240	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.0000e-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	2.5500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.0000e-004
<b>Total</b>	<b>0.0240</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</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	2.5500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	6.0000e-005
<b>Total</b>	<b>0.0224</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

North City Pump Station - San Diego County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0476	3.4000e-004	1.0000e-005	0.0586
Unmitigated	0.0476	3.4000e-004	1.0000e-005	0.0586

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.0104 / 0	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>		<b>0.0476</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>0.0586</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			
General Light Industry	0.0104 / 0	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>		<b>0.0476</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>0.0586</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0589	3.4800e-003	0.0000	0.1458
Unmitigated	0.0589	3.4800e-003	0.0000	0.1458

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0.29	0.0589	3.4800e-003	0.0000	0.1458
<b>Total</b>		<b>0.0589</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>0.1458</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0.29	0.0589	3.4800e-003	0.0000	0.1458
<b>Total</b>		<b>0.0589</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>0.1458</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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North City Pump Station - San Diego County APCD Air District, 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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North City Pump Station - San Diego County APCD Air District, Summer

**North City Pump Station**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	5.50	1000sqft	0.13	5,500.00	1

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

North City Pump Station - San Diego County APCD Air District, Summer

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1 for interior and exterior coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SDAPCD Rule 67.0.1 for interior and exterior architectural coatings.

Landscape Equipment - There is no landscaping for this project.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - EPA waste generation of 4.46 lb/person/day

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1 for interior and exterior architectural coatings. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.



## North City Pump Station - San Diego County APCD Air District, Summer

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	100.00	230.00
tblConstructionPhase	NumDays	2.00	15.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	Population	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblSolidWaste	SolidWasteGenerationRate	6.82	0.29
tblTripsAndVMT	VendorTripNumber	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00

## North City Pump Station - San Diego County APCD Air District, Summer

tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	2.00	26.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	1,271,875.00	10,400.00

## 2.0 Emissions Summary

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North City Pump Station - San Diego County APCD Air District, 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	0.1317	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-003	1.2000e-003	0.0000		1.2800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.1317</b>	<b>1.0000e-005</b>	<b>5.6000e-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>1.2000e-003</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2800e-003</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	0.1229	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.5000e-004	6.5000e-004	0.0000		6.8000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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>0.1229</b>	<b>0.0000</b>	<b>3.3000e-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>6.5000e-004</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.8000e-004</b>



## North City Pump Station - San Diego County APCD Air District, 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	6.70	100.00	41.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.83	45.83	0.00	0.00	46.88

### 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	5/21/2019	6/10/2019	5	15	
2	Trenching	Trenching	6/11/2019	8/19/2019	5	50	
3	Building Construction	Building Construction	8/20/2019	7/6/2020	5	230	
4	Paving	Paving	7/7/2020	7/13/2020	5	5	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

## North City Pump Station - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Concrete/Industrial Saws	1	8.00	81	0.73
Trenching	Excavators	2	8.00	158	0.38
Trenching	Off-Highway Trucks	1	8.00	402	0.38
Trenching	Rollers	2	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Welders	2	8.00	46	0.45
Building Construction	Aerial Lifts	2	8.00	63	0.31
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Crushing/Proc. Equipment	1	8.00	85	0.78
Paving	Off-Highway Trucks	1	8.00	402	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

North City Pump Station - San Diego County APCD Air District, 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	5	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	10	26.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	26.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Grading - 2019**

**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					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	2.9955	31.5054	16.4368	0.0284		1.6189	1.6189		1.4894	1.4894		2,817.0663	2,817.0663	0.8913		2,839.3485
<b>Total</b>	<b>2.9955</b>	<b>31.5054</b>	<b>16.4368</b>	<b>0.0284</b>	<b>12.0442</b>	<b>1.6189</b>	<b>13.6631</b>	<b>6.6205</b>	<b>1.4894</b>	<b>8.1098</b>		<b>2,817.0663</b>	<b>2,817.0663</b>	<b>0.8913</b>		<b>2,839.3485</b>

North City Pump Station - San Diego County APCD Air District, Summer

**3.2 Grading - 2019**

**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	0.0550	0.0384	0.4332	1.2200e-003	0.1150	8.2000e-004	0.1158	0.0305	7.6000e-004	0.0313		121.8280	121.8280	3.8900e-003		121.9252
<b>Total</b>	<b>0.0550</b>	<b>0.0384</b>	<b>0.4332</b>	<b>1.2200e-003</b>	<b>0.1150</b>	<b>8.2000e-004</b>	<b>0.1158</b>	<b>0.0305</b>	<b>7.6000e-004</b>	<b>0.0313</b>		<b>121.8280</b>	<b>121.8280</b>	<b>3.8900e-003</b>		<b>121.9252</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					5.4199	0.0000	5.4199	2.9792	0.0000	2.9792			0.0000			0.0000
Off-Road	0.6972	14.0109	17.6633	0.0284		0.6684	0.6684		0.6684	0.6684	0.0000	2,817.0663	2,817.0663	0.8913		2,839.3485
<b>Total</b>	<b>0.6972</b>	<b>14.0109</b>	<b>17.6633</b>	<b>0.0284</b>	<b>5.4199</b>	<b>0.6684</b>	<b>6.0882</b>	<b>2.9792</b>	<b>0.6684</b>	<b>3.6476</b>	<b>0.0000</b>	<b>2,817.0663</b>	<b>2,817.0663</b>	<b>0.8913</b>		<b>2,839.3485</b>

North City Pump Station - San Diego County APCD Air District, Summer

**3.2 Grading - 2019**

**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	0.0550	0.0384	0.4332	1.2200e-003	0.1150	8.2000e-004	0.1158	0.0305	7.6000e-004	0.0313		121.8280	121.8280	3.8900e-003		121.9252
<b>Total</b>	<b>0.0550</b>	<b>0.0384</b>	<b>0.4332</b>	<b>1.2200e-003</b>	<b>0.1150</b>	<b>8.2000e-004</b>	<b>0.1158</b>	<b>0.0305</b>	<b>7.6000e-004</b>	<b>0.0313</b>		<b>121.8280</b>	<b>121.8280</b>	<b>3.8900e-003</b>		<b>121.9252</b>

**3.3 Trenching - 2019**

**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	3.3824	28.5469	26.2597	0.0464		1.5556	1.5556		1.4655	1.4655		4,472.0551	4,472.0551	1.2072		4,502.2348
<b>Total</b>	<b>3.3824</b>	<b>28.5469</b>	<b>26.2597</b>	<b>0.0464</b>		<b>1.5556</b>	<b>1.5556</b>		<b>1.4655</b>	<b>1.4655</b>		<b>4,472.0551</b>	<b>4,472.0551</b>	<b>1.2072</b>		<b>4,502.2348</b>

North City Pump Station - San Diego County APCD Air District, Summer

**3.3 Trenching - 2019**

**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	0.1021	0.0713	0.8045	2.2700e-003	0.2136	1.5200e-003	0.2151	0.0567	1.4000e-003	0.0581		226.2519	226.2519	7.2200e-003		226.4325
<b>Total</b>	<b>0.1021</b>	<b>0.0713</b>	<b>0.8045</b>	<b>2.2700e-003</b>	<b>0.2136</b>	<b>1.5200e-003</b>	<b>0.2151</b>	<b>0.0567</b>	<b>1.4000e-003</b>	<b>0.0581</b>		<b>226.2519</b>	<b>226.2519</b>	<b>7.2200e-003</b>		<b>226.4325</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	1.1949	23.8092	30.3451	0.0464		1.3279	1.3279		1.3279	1.3279	0.0000	4,472.0551	4,472.0551	1.2072		4,502.2348
<b>Total</b>	<b>1.1949</b>	<b>23.8092</b>	<b>30.3451</b>	<b>0.0464</b>		<b>1.3279</b>	<b>1.3279</b>		<b>1.3279</b>	<b>1.3279</b>	<b>0.0000</b>	<b>4,472.0551</b>	<b>4,472.0551</b>	<b>1.2072</b>		<b>4,502.2348</b>

North City Pump Station - San Diego County APCD Air District, Summer

**3.3 Trenching - 2019**

**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	0.1021	0.0713	0.8045	2.2700e-003	0.2136	1.5200e-003	0.2151	0.0567	1.4000e-003	0.0581		226.2519	226.2519	7.2200e-003		226.4325
<b>Total</b>	<b>0.1021</b>	<b>0.0713</b>	<b>0.8045</b>	<b>2.2700e-003</b>	<b>0.2136</b>	<b>1.5200e-003</b>	<b>0.2151</b>	<b>0.0567</b>	<b>1.4000e-003</b>	<b>0.0581</b>		<b>226.2519</b>	<b>226.2519</b>	<b>7.2200e-003</b>		<b>226.4325</b>

**3.4 Building Construction - 2019**

**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	2.1351	18.0521	14.6913	0.0230		1.0121	1.0121		0.9470	0.9470		2,188.4997	2,188.4997	0.6305		2,204.2621
<b>Total</b>	<b>2.1351</b>	<b>18.0521</b>	<b>14.6913</b>	<b>0.0230</b>		<b>1.0121</b>	<b>1.0121</b>		<b>0.9470</b>	<b>0.9470</b>		<b>2,188.4997</b>	<b>2,188.4997</b>	<b>0.6305</b>		<b>2,204.2621</b>

North City Pump Station - San Diego County APCD Air District, Summer

**3.4 Building Construction - 2019**

**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	9.2100e-003	0.2480	0.0640	5.5000e-004	0.0135	1.7300e-003	0.0153	3.9000e-003	1.6500e-003	5.5500e-003		59.2033	59.2033	4.5700e-003		59.3176
Worker	0.1021	0.0713	0.8045	2.2700e-003	0.2136	1.5200e-003	0.2151	0.0567	1.4000e-003	0.0581		226.2519	226.2519	7.2200e-003		226.4325
<b>Total</b>	<b>0.1113</b>	<b>0.3192</b>	<b>0.8685</b>	<b>2.8200e-003</b>	<b>0.2271</b>	<b>3.2500e-003</b>	<b>0.2304</b>	<b>0.0606</b>	<b>3.0500e-003</b>	<b>0.0636</b>		<b>285.4552</b>	<b>285.4552</b>	<b>0.0118</b>		<b>285.7501</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	0.6518	12.9332	15.2636	0.0230		0.7857	0.7857		0.7857	0.7857	0.0000	2,188.4997	2,188.4997	0.6305		2,204.2621
<b>Total</b>	<b>0.6518</b>	<b>12.9332</b>	<b>15.2636</b>	<b>0.0230</b>		<b>0.7857</b>	<b>0.7857</b>		<b>0.7857</b>	<b>0.7857</b>	<b>0.0000</b>	<b>2,188.4997</b>	<b>2,188.4997</b>	<b>0.6305</b>		<b>2,204.2621</b>



North City Pump Station - San Diego County APCD Air District, Summer

**3.4 Building Construction - 2019**

**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	9.2100e-003	0.2480	0.0640	5.5000e-004	0.0135	1.7300e-003	0.0153	3.9000e-003	1.6500e-003	5.5500e-003		59.2033	59.2033	4.5700e-003		59.3176
Worker	0.1021	0.0713	0.8045	2.2700e-003	0.2136	1.5200e-003	0.2151	0.0567	1.4000e-003	0.0581		226.2519	226.2519	7.2200e-003		226.4325
<b>Total</b>	<b>0.1113</b>	<b>0.3192</b>	<b>0.8685</b>	<b>2.8200e-003</b>	<b>0.2271</b>	<b>3.2500e-003</b>	<b>0.2304</b>	<b>0.0606</b>	<b>3.0500e-003</b>	<b>0.0636</b>		<b>285.4552</b>	<b>285.4552</b>	<b>0.0118</b>		<b>285.7501</b>

**3.4 Building Construction - 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					
Off-Road	1.9224	16.6027	14.3715	0.0230		0.8838	0.8838		0.8270	0.8270		2,149.8814	2,149.8814	0.6224		2,165.4425
<b>Total</b>	<b>1.9224</b>	<b>16.6027</b>	<b>14.3715</b>	<b>0.0230</b>		<b>0.8838</b>	<b>0.8838</b>		<b>0.8270</b>	<b>0.8270</b>		<b>2,149.8814</b>	<b>2,149.8814</b>	<b>0.6224</b>		<b>2,165.4425</b>

North City Pump Station - San Diego County APCD Air District, Summer

**3.4 Building Construction - 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	7.4700e-003	0.2255	0.0575	5.5000e-004	0.0135	1.1000e-003	0.0146	3.9000e-003	1.0600e-003	4.9500e-003		58.8080	58.8080	4.3400e-003		58.9165
Worker	0.0954	0.0643	0.7370	2.2000e-003	0.2136	1.5000e-003	0.2151	0.0567	1.3800e-003	0.0580		219.1142	219.1142	6.5400e-003		219.2778
<b>Total</b>	<b>0.1029</b>	<b>0.2898</b>	<b>0.7944</b>	<b>2.7500e-003</b>	<b>0.2271</b>	<b>2.6000e-003</b>	<b>0.2297</b>	<b>0.0606</b>	<b>2.4400e-003</b>	<b>0.0630</b>		<b>277.9223</b>	<b>277.9223</b>	<b>0.0109</b>		<b>278.1943</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	0.6518	12.9332	15.2636	0.0230		0.7857	0.7857		0.7857	0.7857	0.0000	2,149.8814	2,149.8814	0.6224		2,165.4425
<b>Total</b>	<b>0.6518</b>	<b>12.9332</b>	<b>15.2636</b>	<b>0.0230</b>		<b>0.7857</b>	<b>0.7857</b>		<b>0.7857</b>	<b>0.7857</b>	<b>0.0000</b>	<b>2,149.8814</b>	<b>2,149.8814</b>	<b>0.6224</b>		<b>2,165.4425</b>

North City Pump Station - San Diego County APCD Air District, Summer

**3.4 Building Construction - 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	7.4700e-003	0.2255	0.0575	5.5000e-004	0.0135	1.1000e-003	0.0146	3.9000e-003	1.0600e-003	4.9500e-003		58.8080	58.8080	4.3400e-003		58.9165
Worker	0.0954	0.0643	0.7370	2.2000e-003	0.2136	1.5000e-003	0.2151	0.0567	1.3800e-003	0.0580		219.1142	219.1142	6.5400e-003		219.2778
<b>Total</b>	<b>0.1029</b>	<b>0.2898</b>	<b>0.7944</b>	<b>2.7500e-003</b>	<b>0.2271</b>	<b>2.6000e-003</b>	<b>0.2297</b>	<b>0.0606</b>	<b>2.4400e-003</b>	<b>0.0630</b>		<b>277.9223</b>	<b>277.9223</b>	<b>0.0109</b>		<b>278.1943</b>

**3.5 Paving - 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					
Off-Road	2.3142	21.3048	19.4068	0.0364		1.1395	1.1395		1.0676	1.0676		3,508.0941	3,508.0941	0.9688		3,532.3136
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.3142</b>	<b>21.3048</b>	<b>19.4068</b>	<b>0.0364</b>		<b>1.1395</b>	<b>1.1395</b>		<b>1.0676</b>	<b>1.0676</b>		<b>3,508.0941</b>	<b>3,508.0941</b>	<b>0.9688</b>		<b>3,532.3136</b>

North City Pump Station - San Diego County APCD Air District, Summer

**3.5 Paving - 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	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
<b>Total</b>	<b>0.0661</b>	<b>0.0445</b>	<b>0.5102</b>	<b>1.5200e-003</b>	<b>0.1479</b>	<b>1.0400e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.6000e-004</b>	<b>0.0402</b>		<b>151.6945</b>	<b>151.6945</b>	<b>4.5300e-003</b>		<b>151.8077</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	0.8598	18.0957	23.5463	0.0364		1.0184	1.0184		1.0184	1.0184	0.0000	3,508.0941	3,508.0941	0.9688		3,532.3135
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8598</b>	<b>18.0957</b>	<b>23.5463</b>	<b>0.0364</b>		<b>1.0184</b>	<b>1.0184</b>		<b>1.0184</b>	<b>1.0184</b>	<b>0.0000</b>	<b>3,508.0941</b>	<b>3,508.0941</b>	<b>0.9688</b>		<b>3,532.3135</b>

North City Pump Station - San Diego County APCD Air District, Summer

**3.5 Paving - 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	0.0661	0.0445	0.5102	1.5200e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		151.6945	151.6945	4.5300e-003		151.8077
<b>Total</b>	<b>0.0661</b>	<b>0.0445</b>	<b>0.5102</b>	<b>1.5200e-003</b>	<b>0.1479</b>	<b>1.0400e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.6000e-004</b>	<b>0.0402</b>		<b>151.6945</b>	<b>151.6945</b>	<b>4.5300e-003</b>		<b>151.8077</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

North City Pump Station - San Diego County APCD Air District, 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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

5.0 Energy Detail

Historical Energy Use: N

North City Pump Station - San Diego County APCD Air District, Summer

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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	
<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>	

North City Pump Station - San Diego County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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**

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies



North City Pump Station - San Diego County APCD Air District, 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	0.1229	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.5000e-004	6.5000e-004	0.0000		6.8000e-004
Unmitigated	0.1317	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-003	1.2000e-003	0.0000		1.2800e-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	0.0140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-003	1.2000e-003	0.0000		1.2800e-003
<b>Total</b>	<b>0.1317</b>	<b>1.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.2000e-003</b>	<b>1.2000e-003</b>	<b>0.0000</b>		<b>1.2800e-003</b>

North City Pump Station - San Diego County APCD Air District, 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	0.0140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1089					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.5000e-004	6.5000e-004	0.0000		6.8000e-004
<b>Total</b>	<b>0.1229</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>6.5000e-004</b>	<b>6.5000e-004</b>	<b>0.0000</b>		<b>6.8000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators

North City Pump Station - San Diego County APCD Air District, 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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North City Pump Station - San Diego County APCD Air District, Winter

**North City Pump Station**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	5.50	1000sqft	0.13	5,500.00	1

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

North City Pump Station - San Diego County APCD Air District, Winter

Demolition - No demolition of structures anticipated.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - In accordance with SDAPCD Rule 67.0.1 for interior and exterior coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SDAPCD Rule 67.0.1 for interior and exterior architectural coatings.

Landscape Equipment - There is no landscaping for this project.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - EPA waste generation of 4.46 lb/person/day

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1 for interior and exterior architectural coatings. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - No water use mitigation.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.



## North City Pump Station - San Diego County APCD Air District, Winter

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	100.00	230.00
tblConstructionPhase	NumDays	2.00	15.00
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	Population	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblSolidWaste	SolidWasteGenerationRate	6.82	0.29
tblTripsAndVMT	VendorTripNumber	1.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00

## North City Pump Station - San Diego County APCD Air District, Winter

tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	2.00	26.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	1,271,875.00	10,400.00

## 2.0 Emissions Summary

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North City Pump Station - San Diego County APCD Air District, 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	0.1317	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-003	1.2000e-003	0.0000		1.2800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.1317</b>	<b>1.0000e-005</b>	<b>5.6000e-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>1.2000e-003</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2800e-003</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	0.1229	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.5000e-004	6.5000e-004	0.0000		6.8000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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>0.1229</b>	<b>0.0000</b>	<b>3.3000e-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>6.5000e-004</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.8000e-004</b>

## North City Pump Station - San Diego County APCD Air District, 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	6.70	100.00	41.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.83	45.83	0.00	0.00	46.88

### 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	5/21/2019	6/10/2019	5	15	
2	Trenching	Trenching	6/11/2019	8/19/2019	5	50	
3	Building Construction	Building Construction	8/20/2019	7/6/2020	5	230	
4	Paving	Paving	7/7/2020	7/13/2020	5	5	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

## North City Pump Station - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Concrete/Industrial Saws	1	8.00	81	0.73
Trenching	Excavators	2	8.00	158	0.38
Trenching	Off-Highway Trucks	1	8.00	402	0.38
Trenching	Rollers	2	8.00	80	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Welders	2	8.00	46	0.45
Building Construction	Aerial Lifts	2	8.00	63	0.31
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Crushing/Proc. Equipment	1	8.00	85	0.78
Paving	Off-Highway Trucks	1	8.00	402	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

North City Pump Station - San Diego County APCD Air District, 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	5	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	10	26.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	26.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Grading - 2019**

**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					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	2.9955	31.5054	16.4368	0.0284		1.6189	1.6189		1.4894	1.4894		2,817.0663	2,817.0663	0.8913		2,839.3485
<b>Total</b>	<b>2.9955</b>	<b>31.5054</b>	<b>16.4368</b>	<b>0.0284</b>	<b>12.0442</b>	<b>1.6189</b>	<b>13.6631</b>	<b>6.6205</b>	<b>1.4894</b>	<b>8.1098</b>		<b>2,817.0663</b>	<b>2,817.0663</b>	<b>0.8913</b>		<b>2,839.3485</b>

North City Pump Station - San Diego County APCD Air District, Winter

**3.2 Grading - 2019**

**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	0.0622	0.0431	0.4094	1.1500e-003	0.1150	8.2000e-004	0.1158	0.0305	7.6000e-004	0.0313		114.3679	114.3679	3.6900e-003		114.4602
<b>Total</b>	<b>0.0622</b>	<b>0.0431</b>	<b>0.4094</b>	<b>1.1500e-003</b>	<b>0.1150</b>	<b>8.2000e-004</b>	<b>0.1158</b>	<b>0.0305</b>	<b>7.6000e-004</b>	<b>0.0313</b>		<b>114.3679</b>	<b>114.3679</b>	<b>3.6900e-003</b>		<b>114.4602</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					5.4199	0.0000	5.4199	2.9792	0.0000	2.9792			0.0000			0.0000
Off-Road	0.6972	14.0109	17.6633	0.0284		0.6684	0.6684		0.6684	0.6684	0.0000	2,817.0663	2,817.0663	0.8913		2,839.3485
<b>Total</b>	<b>0.6972</b>	<b>14.0109</b>	<b>17.6633</b>	<b>0.0284</b>	<b>5.4199</b>	<b>0.6684</b>	<b>6.0882</b>	<b>2.9792</b>	<b>0.6684</b>	<b>3.6476</b>	<b>0.0000</b>	<b>2,817.0663</b>	<b>2,817.0663</b>	<b>0.8913</b>		<b>2,839.3485</b>

North City Pump Station - San Diego County APCD Air District, Winter

**3.2 Grading - 2019**

**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	0.0622	0.0431	0.4094	1.1500e-003	0.1150	8.2000e-004	0.1158	0.0305	7.6000e-004	0.0313		114.3679	114.3679	3.6900e-003		114.4602
<b>Total</b>	<b>0.0622</b>	<b>0.0431</b>	<b>0.4094</b>	<b>1.1500e-003</b>	<b>0.1150</b>	<b>8.2000e-004</b>	<b>0.1158</b>	<b>0.0305</b>	<b>7.6000e-004</b>	<b>0.0313</b>		<b>114.3679</b>	<b>114.3679</b>	<b>3.6900e-003</b>		<b>114.4602</b>

**3.3 Trenching - 2019**

**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	3.3824	28.5469	26.2597	0.0464		1.5556	1.5556		1.4655	1.4655		4,472.0551	4,472.0551	1.2072		4,502.2348
<b>Total</b>	<b>3.3824</b>	<b>28.5469</b>	<b>26.2597</b>	<b>0.0464</b>		<b>1.5556</b>	<b>1.5556</b>		<b>1.4655</b>	<b>1.4655</b>		<b>4,472.0551</b>	<b>4,472.0551</b>	<b>1.2072</b>		<b>4,502.2348</b>

North City Pump Station - San Diego County APCD Air District, Winter

**3.3 Trenching - 2019**

**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	0.1155	0.0800	0.7602	2.1300e-003	0.2136	1.5200e-003	0.2151	0.0567	1.4000e-003	0.0581		212.3976	212.3976	6.8500e-003		212.5689
<b>Total</b>	<b>0.1155</b>	<b>0.0800</b>	<b>0.7602</b>	<b>2.1300e-003</b>	<b>0.2136</b>	<b>1.5200e-003</b>	<b>0.2151</b>	<b>0.0567</b>	<b>1.4000e-003</b>	<b>0.0581</b>		<b>212.3976</b>	<b>212.3976</b>	<b>6.8500e-003</b>		<b>212.5689</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	1.1949	23.8092	30.3451	0.0464		1.3279	1.3279		1.3279	1.3279	0.0000	4,472.0551	4,472.0551	1.2072		4,502.2348
<b>Total</b>	<b>1.1949</b>	<b>23.8092</b>	<b>30.3451</b>	<b>0.0464</b>		<b>1.3279</b>	<b>1.3279</b>		<b>1.3279</b>	<b>1.3279</b>	<b>0.0000</b>	<b>4,472.0551</b>	<b>4,472.0551</b>	<b>1.2072</b>		<b>4,502.2348</b>



North City Pump Station - San Diego County APCD Air District, Winter

**3.3 Trenching - 2019**

**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	0.1155	0.0800	0.7602	2.1300e-003	0.2136	1.5200e-003	0.2151	0.0567	1.4000e-003	0.0581		212.3976	212.3976	6.8500e-003		212.5689
<b>Total</b>	<b>0.1155</b>	<b>0.0800</b>	<b>0.7602</b>	<b>2.1300e-003</b>	<b>0.2136</b>	<b>1.5200e-003</b>	<b>0.2151</b>	<b>0.0567</b>	<b>1.4000e-003</b>	<b>0.0581</b>		<b>212.3976</b>	<b>212.3976</b>	<b>6.8500e-003</b>		<b>212.5689</b>

**3.4 Building Construction - 2019**

**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	2.1351	18.0521	14.6913	0.0230		1.0121	1.0121		0.9470	0.9470		2,188.4997	2,188.4997	0.6305		2,204.2621
<b>Total</b>	<b>2.1351</b>	<b>18.0521</b>	<b>14.6913</b>	<b>0.0230</b>		<b>1.0121</b>	<b>1.0121</b>		<b>0.9470</b>	<b>0.9470</b>		<b>2,188.4997</b>	<b>2,188.4997</b>	<b>0.6305</b>		<b>2,204.2621</b>

North City Pump Station - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2019**

**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	9.6000e-003	0.2482	0.0710	5.4000e-004	0.0135	1.7600e-003	0.0153	3.9000e-003	1.6800e-003	5.5800e-003		57.7001	57.7001	4.8600e-003		57.8216
Worker	0.1155	0.0800	0.7602	2.1300e-003	0.2136	1.5200e-003	0.2151	0.0567	1.4000e-003	0.0581		212.3976	212.3976	6.8500e-003		212.5689
<b>Total</b>	<b>0.1251</b>	<b>0.3282</b>	<b>0.8312</b>	<b>2.6700e-003</b>	<b>0.2271</b>	<b>3.2800e-003</b>	<b>0.2304</b>	<b>0.0606</b>	<b>3.0800e-003</b>	<b>0.0636</b>		<b>270.0976</b>	<b>270.0976</b>	<b>0.0117</b>		<b>270.3905</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	0.6518	12.9332	15.2636	0.0230		0.7857	0.7857		0.7857	0.7857	0.0000	2,188.4997	2,188.4997	0.6305		2,204.2621
<b>Total</b>	<b>0.6518</b>	<b>12.9332</b>	<b>15.2636</b>	<b>0.0230</b>		<b>0.7857</b>	<b>0.7857</b>		<b>0.7857</b>	<b>0.7857</b>	<b>0.0000</b>	<b>2,188.4997</b>	<b>2,188.4997</b>	<b>0.6305</b>		<b>2,204.2621</b>

North City Pump Station - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2019**

**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	9.6000e-003	0.2482	0.0710	5.4000e-004	0.0135	1.7600e-003	0.0153	3.9000e-003	1.6800e-003	5.5800e-003		57.7001	57.7001	4.8600e-003		57.8216
Worker	0.1155	0.0800	0.7602	2.1300e-003	0.2136	1.5200e-003	0.2151	0.0567	1.4000e-003	0.0581		212.3976	212.3976	6.8500e-003		212.5689
<b>Total</b>	<b>0.1251</b>	<b>0.3282</b>	<b>0.8312</b>	<b>2.6700e-003</b>	<b>0.2271</b>	<b>3.2800e-003</b>	<b>0.2304</b>	<b>0.0606</b>	<b>3.0800e-003</b>	<b>0.0636</b>		<b>270.0976</b>	<b>270.0976</b>	<b>0.0117</b>		<b>270.3905</b>

**3.4 Building Construction - 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					
Off-Road	1.9224	16.6027	14.3715	0.0230		0.8838	0.8838		0.8270	0.8270		2,149.8814	2,149.8814	0.6224		2,165.4425
<b>Total</b>	<b>1.9224</b>	<b>16.6027</b>	<b>14.3715</b>	<b>0.0230</b>		<b>0.8838</b>	<b>0.8838</b>		<b>0.8270</b>	<b>0.8270</b>		<b>2,149.8814</b>	<b>2,149.8814</b>	<b>0.6224</b>		<b>2,165.4425</b>

North City Pump Station - San Diego County APCD Air District, Winter

**3.4 Building Construction - 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	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003		57.2924	57.2924	4.6100e-003		57.4077
Worker	0.1081	0.0722	0.6948	2.0600e-003	0.2136	1.5000e-003	0.2151	0.0567	1.3800e-003	0.0580		205.6943	205.6943	6.1900e-003		205.8491
<b>Total</b>	<b>0.1159</b>	<b>0.2975</b>	<b>0.7586</b>	<b>2.5900e-003</b>	<b>0.2271</b>	<b>2.6200e-003</b>	<b>0.2297</b>	<b>0.0606</b>	<b>2.4600e-003</b>	<b>0.0630</b>		<b>262.9868</b>	<b>262.9868</b>	<b>0.0108</b>		<b>263.2568</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	0.6518	12.9332	15.2636	0.0230		0.7857	0.7857		0.7857	0.7857	0.0000	2,149.8814	2,149.8814	0.6224		2,165.4425
<b>Total</b>	<b>0.6518</b>	<b>12.9332</b>	<b>15.2636</b>	<b>0.0230</b>		<b>0.7857</b>	<b>0.7857</b>		<b>0.7857</b>	<b>0.7857</b>	<b>0.0000</b>	<b>2,149.8814</b>	<b>2,149.8814</b>	<b>0.6224</b>		<b>2,165.4425</b>

North City Pump Station - San Diego County APCD Air District, Winter

**3.4 Building Construction - 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	7.8300e-003	0.2253	0.0638	5.3000e-004	0.0135	1.1200e-003	0.0147	3.9000e-003	1.0800e-003	4.9700e-003		57.2924	57.2924	4.6100e-003		57.4077
Worker	0.1081	0.0722	0.6948	2.0600e-003	0.2136	1.5000e-003	0.2151	0.0567	1.3800e-003	0.0580		205.6943	205.6943	6.1900e-003		205.8491
<b>Total</b>	<b>0.1159</b>	<b>0.2975</b>	<b>0.7586</b>	<b>2.5900e-003</b>	<b>0.2271</b>	<b>2.6200e-003</b>	<b>0.2297</b>	<b>0.0606</b>	<b>2.4600e-003</b>	<b>0.0630</b>		<b>262.9868</b>	<b>262.9868</b>	<b>0.0108</b>		<b>263.2568</b>

**3.5 Paving - 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					
Off-Road	2.3142	21.3048	19.4068	0.0364		1.1395	1.1395		1.0676	1.0676		3,508.0941	3,508.0941	0.9688		3,532.3136
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.3142</b>	<b>21.3048</b>	<b>19.4068</b>	<b>0.0364</b>		<b>1.1395</b>	<b>1.1395</b>		<b>1.0676</b>	<b>1.0676</b>		<b>3,508.0941</b>	<b>3,508.0941</b>	<b>0.9688</b>		<b>3,532.3136</b>

North City Pump Station - San Diego County APCD Air District, Winter

**3.5 Paving - 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	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109
<b>Total</b>	<b>0.0748</b>	<b>0.0500</b>	<b>0.4810</b>	<b>1.4300e-003</b>	<b>0.1479</b>	<b>1.0400e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.6000e-004</b>	<b>0.0402</b>		<b>142.4038</b>	<b>142.4038</b>	<b>4.2900e-003</b>		<b>142.5109</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	0.8598	18.0957	23.5463	0.0364		1.0184	1.0184		1.0184	1.0184	0.0000	3,508.0941	3,508.0941	0.9688		3,532.3135
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8598</b>	<b>18.0957</b>	<b>23.5463</b>	<b>0.0364</b>		<b>1.0184</b>	<b>1.0184</b>		<b>1.0184</b>	<b>1.0184</b>	<b>0.0000</b>	<b>3,508.0941</b>	<b>3,508.0941</b>	<b>0.9688</b>		<b>3,532.3135</b>

North City Pump Station - San Diego County APCD Air District, Winter

**3.5 Paving - 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	0.0748	0.0500	0.4810	1.4300e-003	0.1479	1.0400e-003	0.1489	0.0392	9.6000e-004	0.0402		142.4038	142.4038	4.2900e-003		142.5109
<b>Total</b>	<b>0.0748</b>	<b>0.0500</b>	<b>0.4810</b>	<b>1.4300e-003</b>	<b>0.1479</b>	<b>1.0400e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.6000e-004</b>	<b>0.0402</b>		<b>142.4038</b>	<b>142.4038</b>	<b>4.2900e-003</b>		<b>142.5109</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

North City Pump Station - San Diego County APCD Air District, 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	0.0000	0.0000	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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

5.0 Energy Detail

Historical Energy Use: N



North City Pump Station - San Diego County APCD Air District, Winter

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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	
<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>	

North City Pump Station - San Diego County APCD Air District, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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**

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed
- Use Low VOC Cleaning Supplies

North City Pump Station - San Diego County APCD Air District, 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	0.1229	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.5000e-004	6.5000e-004	0.0000		6.8000e-004
Unmitigated	0.1317	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-003	1.2000e-003	0.0000		1.2800e-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	0.0140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	1.0000e-005	5.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.2000e-003	1.2000e-003	0.0000		1.2800e-003
<b>Total</b>	<b>0.1317</b>	<b>1.0000e-005</b>	<b>5.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.2000e-003</b>	<b>1.2000e-003</b>	<b>0.0000</b>		<b>1.2800e-003</b>

North City Pump Station - San Diego County APCD Air District, 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	0.0140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1089					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		6.5000e-004	6.5000e-004	0.0000		6.8000e-004
<b>Total</b>	<b>0.1229</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>6.5000e-004</b>	<b>6.5000e-004</b>	<b>0.0000</b>		<b>6.8000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators

North City Pump Station - San Diego County APCD Air District, 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**

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Pure Water Dechlorination Facility - San Diego County APCD Air District, Annual

**Pure Water Dechlorination Facility**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.81	1000sqft	0.04	1,812.00	1

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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 - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description.

Construction Phase - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Grading -

Demolition -

Trips and VMT - See Section 7.2.1 for Construction Details.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating -

Vehicle Trips - No mobile trips.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SDAPCD Rule 67.0.1.

Landscape Equipment - CalEEMod defaults.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided data.

Solid Waste - EPA waste generation of 4.46 lb/person/day.

Construction Off-road Equipment Mitigation - Per MM-AQ-1, all construction equipment will be at least Tier 3.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	100.00	90.00
tblConstructionPhase	NumDays	2.00	60.00
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	PhaseEndDate	1/6/2019	8/2/2019
tblConstructionPhase	PhaseEndDate	1/6/2019	3/29/2019
tblConstructionPhase	PhaseEndDate	1/6/2019	8/13/2019



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tblConstructionPhase	PhaseStartDate	1/7/2019	4/1/2019
tblConstructionPhase	PhaseStartDate	1/7/2019	8/3/2019
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	Population	0.00	1.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblSolidWaste	SolidWasteGenerationRate	2.24	0.29
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	100.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblVehicleTrips	CC_TL	7.30	0.00

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tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	418,562.50	10,400.00

## 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	1-7-2019	4-6-2019	0.2527	0.1735
2	4-7-2019	7-6-2019	0.4138	0.2717
3	7-7-2019	9-30-2019	0.1484	0.0963
		Highest	0.4138	0.2717

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	7.9200e-003	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0589	0.0000	0.0589	3.4800e-003	0.0000	0.1458
Water						0.0000	0.0000		0.0000	0.0000	3.3000e-003	0.0443	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>	<b>7.9200e-003</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0622</b>	<b>0.0443</b>	<b>0.1065</b>	<b>3.8200e-003</b>	<b>1.0000e-005</b>	<b>0.2044</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	7.9200e-003	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0589	0.0000	0.0589	3.4800e-003	0.0000	0.1458
Water						0.0000	0.0000		0.0000	0.0000	3.3000e-003	0.0443	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>	<b>7.9200e-003</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0622</b>	<b>0.0443</b>	<b>0.1065</b>	<b>3.8200e-003</b>	<b>1.0000e-005</b>	<b>0.2044</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	4/1/2019	8/2/2019	5	90	
2	Grading	Grading	1/7/2019	3/29/2019	5	60	
3	Paving	Paving	8/3/2019	8/13/2019	5	7	

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**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Cement and Mortar Mixers	1	8.00	9	0.56
	Cranes	1	8.00	231	0.29
Paving	Dumpers/Tenders	1	8.00	16	0.38
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
	Pumps	1	8.00	84	0.74
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
	Welders	1	8.00	46	0.45
Grading	Dumpers/Tenders	2	8.00	16	0.38
Grading	Excavators	2	8.00	158	0.38
Grading	Plate Compactors	2	8.00	8	0.43

**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
Building Construction	5	100.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

**3.2 Building Construction - 2019**

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	0.0431	0.4419	0.3394	5.1000e-004		0.0272	0.0272		0.0251	0.0251	0.0000	46.0352	46.0352	0.0146	0.0000	46.3993
<b>Total</b>	<b>0.0431</b>	<b>0.4419</b>	<b>0.3394</b>	<b>5.1000e-004</b>		<b>0.0272</b>	<b>0.0272</b>		<b>0.0251</b>	<b>0.0251</b>	<b>0.0000</b>	<b>46.0352</b>	<b>46.0352</b>	<b>0.0146</b>	<b>0.0000</b>	<b>46.3993</b>

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**3.2 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1100e-003	0.0565	0.0152	1.2000e-004	2.9900e-003	3.9000e-004	3.3800e-003	8.6000e-004	3.7000e-004	1.2400e-003	0.0000	11.9555	11.9555	9.6000e-004	0.0000	11.9795
Worker	0.0177	0.0136	0.1317	3.7000e-004	0.0361	2.6000e-004	0.0364	9.5900e-003	2.4000e-004	9.8300e-003	0.0000	33.6823	33.6823	1.0800e-003	0.0000	33.7094
<b>Total</b>	<b>0.0199</b>	<b>0.0701</b>	<b>0.1468</b>	<b>4.9000e-004</b>	<b>0.0391</b>	<b>6.5000e-004</b>	<b>0.0397</b>	<b>0.0105</b>	<b>6.1000e-004</b>	<b>0.0111</b>	<b>0.0000</b>	<b>45.6379</b>	<b>45.6379</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>45.6889</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	0.0126	0.2758	0.3583	5.1000e-004		0.0174	0.0174		0.0174	0.0174	0.0000	46.0352	46.0352	0.0146	0.0000	46.3993
<b>Total</b>	<b>0.0126</b>	<b>0.2758</b>	<b>0.3583</b>	<b>5.1000e-004</b>		<b>0.0174</b>	<b>0.0174</b>		<b>0.0174</b>	<b>0.0174</b>	<b>0.0000</b>	<b>46.0352</b>	<b>46.0352</b>	<b>0.0146</b>	<b>0.0000</b>	<b>46.3993</b>



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**3.2 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1100e-003	0.0565	0.0152	1.2000e-004	2.9900e-003	3.9000e-004	3.3800e-003	8.6000e-004	3.7000e-004	1.2400e-003	0.0000	11.9555	11.9555	9.6000e-004	0.0000	11.9795
Worker	0.0177	0.0136	0.1317	3.7000e-004	0.0361	2.6000e-004	0.0364	9.5900e-003	2.4000e-004	9.8300e-003	0.0000	33.6823	33.6823	1.0800e-003	0.0000	33.7094
<b>Total</b>	<b>0.0199</b>	<b>0.0701</b>	<b>0.1468</b>	<b>4.9000e-004</b>	<b>0.0391</b>	<b>6.5000e-004</b>	<b>0.0397</b>	<b>0.0105</b>	<b>6.1000e-004</b>	<b>0.0111</b>	<b>0.0000</b>	<b>45.6379</b>	<b>45.6379</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>45.6889</b>

**3.3 Grading - 2019**

**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	0.0225	0.2047	0.2245	3.9000e-004		9.4600e-003	9.4600e-003		8.8400e-003	8.8400e-003	0.0000	33.1540	33.1540	9.4000e-003	0.0000	33.3890
<b>Total</b>	<b>0.0225</b>	<b>0.2047</b>	<b>0.2245</b>	<b>3.9000e-004</b>		<b>9.4600e-003</b>	<b>9.4600e-003</b>		<b>8.8400e-003</b>	<b>8.8400e-003</b>	<b>0.0000</b>	<b>33.1540</b>	<b>33.1540</b>	<b>9.4000e-003</b>	<b>0.0000</b>	<b>33.3890</b>

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**3.3 Grading - 2019**

**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	1.8900e-003	1.4500e-003	0.0140	4.0000e-005	3.8500e-003	3.0000e-005	3.8800e-003	1.0200e-003	3.0000e-005	1.0500e-003	0.0000	3.5928	3.5928	1.2000e-004	0.0000	3.5957
<b>Total</b>	<b>1.8900e-003</b>	<b>1.4500e-003</b>	<b>0.0140</b>	<b>4.0000e-005</b>	<b>3.8500e-003</b>	<b>3.0000e-005</b>	<b>3.8800e-003</b>	<b>1.0200e-003</b>	<b>3.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.5928</b>	<b>3.5928</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.5957</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	7.6600e-003	0.1481	0.2363	3.9000e-004		7.1500e-003	7.1500e-003		7.1500e-003	7.1500e-003	0.0000	33.1540	33.1540	9.4000e-003	0.0000	33.3889
<b>Total</b>	<b>7.6600e-003</b>	<b>0.1481</b>	<b>0.2363</b>	<b>3.9000e-004</b>		<b>7.1500e-003</b>	<b>7.1500e-003</b>		<b>7.1500e-003</b>	<b>7.1500e-003</b>	<b>0.0000</b>	<b>33.1540</b>	<b>33.1540</b>	<b>9.4000e-003</b>	<b>0.0000</b>	<b>33.3889</b>

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**3.3 Grading - 2019**

**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	1.8900e-003	1.4500e-003	0.0140	4.0000e-005	3.8500e-003	3.0000e-005	3.8800e-003	1.0200e-003	3.0000e-005	1.0500e-003	0.0000	3.5928	3.5928	1.2000e-004	0.0000	3.5957
<b>Total</b>	<b>1.8900e-003</b>	<b>1.4500e-003</b>	<b>0.0140</b>	<b>4.0000e-005</b>	<b>3.8500e-003</b>	<b>3.0000e-005</b>	<b>3.8800e-003</b>	<b>1.0200e-003</b>	<b>3.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.5928</b>	<b>3.5928</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.5957</b>

**3.4 Paving - 2019**

**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	2.0600e-003	0.0204	0.0177	3.0000e-005		1.1100e-003	1.1100e-003		1.0300e-003	1.0300e-003	0.0000	2.4961	2.4961	7.5000e-004	0.0000	2.5148
Paving	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>2.0600e-003</b>	<b>0.0204</b>	<b>0.0177</b>	<b>3.0000e-005</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>1.0300e-003</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>2.4961</b>	<b>2.4961</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>2.5148</b>

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**3.4 Paving - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.7000e-004	1.6400e-003	0.0000	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4192	0.4192	1.0000e-005	0.0000	0.4195
<b>Total</b>	<b>2.2000e-004</b>	<b>1.7000e-004</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.5000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4192</b>	<b>0.4192</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4195</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	6.3000e-004	0.0130	0.0194	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.4961	2.4961	7.5000e-004	0.0000	2.5148
Paving	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>6.3000e-004</b>	<b>0.0130</b>	<b>0.0194</b>	<b>3.0000e-005</b>		<b>7.4000e-004</b>	<b>7.4000e-004</b>		<b>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>2.4961</b>	<b>2.4961</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>2.5148</b>

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**3.4 Paving - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.7000e-004	1.6400e-003	0.0000	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4192	0.4192	1.0000e-005	0.0000	0.4195
<b>Total</b>	<b>2.2000e-004</b>	<b>1.7000e-004</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.5000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4192</b>	<b>0.4192</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4195</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N



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**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr						
General Light Industry	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	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>	<b>0.0000</b>	<b>0.0000</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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>



## Pure Water Dechlorination Facility - San Diego County APCD Air District, Annual

**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Pure Water Dechlorination Facility - San Diego County APCD Air District, 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	7.9200e-003	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	7.9200e-003	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005

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	8.4000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.0800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>7.9200e-003</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</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	8.4000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.0800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	2.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>7.9200e-003</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Pure Water Dechlorination Facility - San Diego County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0476	3.4000e-004	1.0000e-005	0.0586
Unmitigated	0.0476	3.4000e-004	1.0000e-005	0.0586

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.0104 / 0	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>		<b>0.0476</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>0.0586</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, Annual

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.0104 / 0	0.0476	3.4000e-004	1.0000e-005	0.0586
<b>Total</b>		<b>0.0476</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>0.0586</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0589	3.4800e-003	0.0000	0.1458
Unmitigated	0.0589	3.4800e-003	0.0000	0.1458

Pure Water Dechlorination Facility - San Diego County APCD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0.29	0.0589	3.4800e-003	0.0000	0.1458
<b>Total</b>		<b>0.0589</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>0.1458</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0.29	0.0589	3.4800e-003	0.0000	0.1458
<b>Total</b>		<b>0.0589</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>0.1458</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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Pure Water Dechlorination Facility - San Diego County APCD Air District, 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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Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

**Pure Water Dechlorination Facility**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.81	1000sqft	0.04	1,812.00	1

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**



Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description.

Construction Phase - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Grading -

Demolition -

Trips and VMT - See Section 7.2.1 for Construction Details.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating -

Vehicle Trips - No mobile trips.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SDAPCD Rule 67.0.1.

Landscape Equipment - CalEEMod defaults.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided data.

Solid Waste - EPA waste generation of 4.46 lb/person/day.

Construction Off-road Equipment Mitigation - Per MM-AQ-1, all construction equipment will be at least Tier 3.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	100.00	90.00
tblConstructionPhase	NumDays	2.00	60.00
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	PhaseEndDate	1/6/2019	8/2/2019
tblConstructionPhase	PhaseEndDate	1/6/2019	3/29/2019
tblConstructionPhase	PhaseEndDate	1/6/2019	8/13/2019

Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

tblConstructionPhase	PhaseStartDate	1/7/2019	4/1/2019
tblConstructionPhase	PhaseStartDate	1/7/2019	8/3/2019
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	Population	0.00	1.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblSolidWaste	SolidWasteGenerationRate	2.24	0.29
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	100.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblVehicleTrips	CC_TL	7.30	0.00

## Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	418,562.50	10,400.00

## 2.0 Emissions Summary

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Pure Water Dechlorination Facility - San Diego County APCD Air District, 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	0.0434	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.0000e-004	4.0000e-004	0.0000		4.2000e-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
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>0.0434</b>	<b>0.0000</b>	<b>1.9000e-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>4.0000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.2000e-004</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	0.0434	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.0000e-004	4.0000e-004	0.0000		4.2000e-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
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>0.0434</b>	<b>0.0000</b>	<b>1.9000e-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>4.0000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.2000e-004</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, 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	Building Construction	Building Construction	4/1/2019	8/2/2019	5	90	
2	Grading	Grading	1/7/2019	3/29/2019	5	60	
3	Paving	Paving	8/3/2019	8/13/2019	5	7	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Cement and Mortar Mixers	1	8.00	9	0.56
	Cranes	1	8.00	231	0.29
Paving	Dumpers/Tenders	1	8.00	16	0.38
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
	Pumps	1	8.00	84	0.74
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
	Welders	1	8.00	46	0.45
Grading	Dumpers/Tenders	2	8.00	16	0.38
Grading	Excavators	2	8.00	158	0.38
Grading	Plate Compactors	2	8.00	8	0.43

**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
Building Construction	5	100.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads



Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

**3.2 Building Construction - 2019**

**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	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569		1,127.6696	1,127.6696	0.3568		1,136.5892
<b>Total</b>	<b>0.9576</b>	<b>9.8207</b>	<b>7.5432</b>	<b>0.0114</b>		<b>0.6054</b>	<b>0.6054</b>		<b>0.5569</b>	<b>0.5569</b>		<b>1,127.6696</b>	<b>1,127.6696</b>	<b>0.3568</b>		<b>1,136.5892</b>

**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	0.0460	1.2399	0.3201	2.7600e-003	0.0677	8.6300e-003	0.0763	0.0195	8.2500e-003	0.0277		296.0166	296.0166	0.0229		296.5880
Worker	0.3927	0.2740	3.0941	8.7400e-003	0.8215	5.8600e-003	0.8273	0.2179	5.4000e-003	0.2233		870.1996	870.1996	0.0278		870.8943
<b>Total</b>	<b>0.4387</b>	<b>1.5139</b>	<b>3.4142</b>	<b>0.0115</b>	<b>0.8892</b>	<b>0.0145</b>	<b>0.9037</b>	<b>0.2374</b>	<b>0.0137</b>	<b>0.2510</b>		<b>1,166.2163</b>	<b>1,166.2163</b>	<b>0.0506</b>		<b>1,167.4823</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

**3.2 Building Construction - 2019**

**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	0.2793	6.1296	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,127.6696	1,127.6696	0.3568		1,136.5892
<b>Total</b>	<b>0.2793</b>	<b>6.1296</b>	<b>7.9624</b>	<b>0.0114</b>		<b>0.3855</b>	<b>0.3855</b>		<b>0.3855</b>	<b>0.3855</b>	<b>0.0000</b>	<b>1,127.6696</b>	<b>1,127.6696</b>	<b>0.3568</b>		<b>1,136.5892</b>

**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	0.0460	1.2399	0.3201	2.7600e-003	0.0677	8.6300e-003	0.0763	0.0195	8.2500e-003	0.0277		296.0166	296.0166	0.0229		296.5880
Worker	0.3927	0.2740	3.0941	8.7400e-003	0.8215	5.8600e-003	0.8273	0.2179	5.4000e-003	0.2233		870.1996	870.1996	0.0278		870.8943
<b>Total</b>	<b>0.4387</b>	<b>1.5139</b>	<b>3.4142</b>	<b>0.0115</b>	<b>0.8892</b>	<b>0.0145</b>	<b>0.9037</b>	<b>0.2374</b>	<b>0.0137</b>	<b>0.2510</b>		<b>1,166.2163</b>	<b>1,166.2163</b>	<b>0.0506</b>		<b>1,167.4823</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

**3.3 Grading - 2019**

**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	0.7514	6.8242	7.4816	0.0129		0.3153	0.3153		0.2945	0.2945		1,218.2018	1,218.2018	0.3453		1,226.8340
<b>Total</b>	<b>0.7514</b>	<b>6.8242</b>	<b>7.4816</b>	<b>0.0129</b>		<b>0.3153</b>	<b>0.3153</b>		<b>0.2945</b>	<b>0.2945</b>		<b>1,218.2018</b>	<b>1,218.2018</b>	<b>0.3453</b>		<b>1,226.8340</b>

**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	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.0628</b>	<b>0.0438</b>	<b>0.4951</b>	<b>1.4000e-003</b>	<b>0.1314</b>	<b>9.4000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.6000e-004</b>	<b>0.0357</b>		<b>139.2319</b>	<b>139.2319</b>	<b>4.4500e-003</b>		<b>139.3431</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

**3.3 Grading - 2019**

**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	0.2554	4.9380	7.8752	0.0129		0.2384	0.2384		0.2384	0.2384	0.0000	1,218.2018	1,218.2018	0.3453		1,226.8340
<b>Total</b>	<b>0.2554</b>	<b>4.9380</b>	<b>7.8752</b>	<b>0.0129</b>		<b>0.2384</b>	<b>0.2384</b>		<b>0.2384</b>	<b>0.2384</b>	<b>0.0000</b>	<b>1,218.2018</b>	<b>1,218.2018</b>	<b>0.3453</b>		<b>1,226.8340</b>

**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	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.0628</b>	<b>0.0438</b>	<b>0.4951</b>	<b>1.4000e-003</b>	<b>0.1314</b>	<b>9.4000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.6000e-004</b>	<b>0.0357</b>		<b>139.2319</b>	<b>139.2319</b>	<b>4.4500e-003</b>		<b>139.3431</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

**3.4 Paving - 2019**

**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	0.5878	5.8310	5.0598	8.0700e-003		0.3183	0.3183		0.2942	0.2942		786.1223	786.1223	0.2360		792.0218
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5878</b>	<b>5.8310</b>	<b>5.0598</b>	<b>8.0700e-003</b>		<b>0.3183</b>	<b>0.3183</b>		<b>0.2942</b>	<b>0.2942</b>		<b>786.1223</b>	<b>786.1223</b>	<b>0.2360</b>		<b>792.0218</b>

**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	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.0628</b>	<b>0.0438</b>	<b>0.4951</b>	<b>1.4000e-003</b>	<b>0.1314</b>	<b>9.4000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.6000e-004</b>	<b>0.0357</b>		<b>139.2319</b>	<b>139.2319</b>	<b>4.4500e-003</b>		<b>139.3431</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

**3.4 Paving - 2019**

**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	0.1799	3.7032	5.5468	8.0700e-003		0.2108	0.2108		0.2108	0.2108	0.0000	786.1223	786.1223	0.2360		792.0218
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1799</b>	<b>3.7032</b>	<b>5.5468</b>	<b>8.0700e-003</b>		<b>0.2108</b>	<b>0.2108</b>		<b>0.2108</b>	<b>0.2108</b>	<b>0.0000</b>	<b>786.1223</b>	<b>786.1223</b>	<b>0.2360</b>		<b>792.0218</b>

**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	0.0628	0.0438	0.4951	1.4000e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		139.2319	139.2319	4.4500e-003		139.3431
<b>Total</b>	<b>0.0628</b>	<b>0.0438</b>	<b>0.4951</b>	<b>1.4000e-003</b>	<b>0.1314</b>	<b>9.4000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.6000e-004</b>	<b>0.0357</b>		<b>139.2319</b>	<b>139.2319</b>	<b>4.4500e-003</b>		<b>139.3431</b>

**4.0 Operational Detail - Mobile**

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Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

Pure Water Dechlorination Facility - San Diego County APCD Air District, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	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



Pure Water Dechlorination Facility - San Diego County APCD Air District, 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					
General Light Industry	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					
General Light Industry	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**

Pure Water Dechlorination Facility - San Diego County APCD Air District, 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	0.0434	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.0000e-004	4.0000e-004	0.0000		4.2000e-004
Unmitigated	0.0434	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.0000e-004	4.0000e-004	0.0000		4.2000e-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	lb/day										lb/day					
Architectural Coating	4.6000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0388					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.0000e-004	4.0000e-004	0.0000		4.2000e-004
<b>Total</b>	<b>0.0434</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>4.0000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>		<b>4.2000e-004</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, 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	4.6000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0388					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.0000e-004	4.0000e-004	0.0000		4.2000e-004
<b>Total</b>	<b>0.0434</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>4.0000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>		<b>4.2000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators

## Pure Water Dechlorination Facility - San Diego County APCD Air District, 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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Pure Water Dechlorination Facility - San Diego County APCD Air District, Winter

**Pure Water Dechlorination Facility**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.81	1000sqft	0.04	1,812.00	1

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2021
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

## Pure Water Dechlorination Facility - San Diego County APCD Air District, Winter

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description.

Construction Phase - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Grading -

Demolition -

Trips and VMT - See Section 7.2.1 for Construction Details.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating -

Vehicle Trips - No mobile trips.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SDAPCD Rule 67.0.1.

Landscape Equipment - CalEEMod defaults.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided data.

Solid Waste - EPA waste generation of 4.46 lb/person/day.

Construction Off-road Equipment Mitigation - Per MM-AQ-1, all construction equipment will be at least Tier 3.

Area Mitigation - In accordance with SDAPCD Rule 67.0.1.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

Pure Water Dechlorination Facility - San Diego County APCD Air District, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	100.00	90.00
tblConstructionPhase	NumDays	2.00	60.00
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	PhaseEndDate	1/6/2019	8/2/2019
tblConstructionPhase	PhaseEndDate	1/6/2019	3/29/2019
tblConstructionPhase	PhaseEndDate	1/6/2019	8/13/2019

## Pure Water Dechlorination Facility - San Diego County APCD Air District, Winter

tblConstructionPhase	PhaseStartDate	1/7/2019	4/1/2019
tblConstructionPhase	PhaseStartDate	1/7/2019	8/3/2019
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00
tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblLandUse	Population	0.00	1.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblSolidWaste	SolidWasteGenerationRate	2.24	0.29
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	100.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblVehicleTrips	CC_TL	7.30	0.00



## Pure Water Dechlorination Facility - San Diego County APCD Air District, Winter

tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	418,562.50	10,400.00

## 2.0 Emissions Summary

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Pure Water Dechlorination Facility - San Diego County APCD Air District, 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	0.0434	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.0000e-004	4.0000e-004	0.0000		4.2000e-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
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>0.0434</b>	<b>0.0000</b>	<b>1.9000e-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>4.0000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.2000e-004</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	0.0434	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.0000e-004	4.0000e-004	0.0000		4.2000e-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
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>0.0434</b>	<b>0.0000</b>	<b>1.9000e-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>4.0000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.2000e-004</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, 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	Building Construction	Building Construction	4/1/2019	8/2/2019	5	90	
2	Grading	Grading	1/7/2019	3/29/2019	5	60	
3	Paving	Paving	8/3/2019	8/13/2019	5	7	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

Pure Water Dechlorination Facility - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Cement and Mortar Mixers	1	8.00	9	0.56
	Cranes	1	8.00	231	0.29
Paving	Dumpers/Tenders	1	8.00	16	0.38
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
	Pumps	1	8.00	84	0.74
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
	Welders	1	8.00	46	0.45
Grading	Dumpers/Tenders	2	8.00	16	0.38
Grading	Excavators	2	8.00	158	0.38
Grading	Plate Compactors	2	8.00	8	0.43

**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
Building Construction	5	100.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

Pure Water Dechlorination Facility - San Diego County APCD Air District, Winter

**3.2 Building Construction - 2019**

**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	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569		1,127.6696	1,127.6696	0.3568		1,136.5892
<b>Total</b>	<b>0.9576</b>	<b>9.8207</b>	<b>7.5432</b>	<b>0.0114</b>		<b>0.6054</b>	<b>0.6054</b>		<b>0.5569</b>	<b>0.5569</b>		<b>1,127.6696</b>	<b>1,127.6696</b>	<b>0.3568</b>		<b>1,136.5892</b>

**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	0.0480	1.2409	0.3549	2.6900e-003	0.0677	8.7800e-003	0.0765	0.0195	8.4000e-003	0.0279		288.5003	288.5003	0.0243		289.1081
Worker	0.4441	0.3078	2.9239	8.2000e-003	0.8215	5.8600e-003	0.8273	0.2179	5.4000e-003	0.2233		816.9138	816.9138	0.0264		817.5727
<b>Total</b>	<b>0.4921</b>	<b>1.5486</b>	<b>3.2788</b>	<b>0.0109</b>	<b>0.8892</b>	<b>0.0146</b>	<b>0.9038</b>	<b>0.2374</b>	<b>0.0138</b>	<b>0.2512</b>		<b>1,105.4140</b>	<b>1,105.4140</b>	<b>0.0507</b>		<b>1,106.6808</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, Winter

**3.2 Building Construction - 2019**

**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	0.2793	6.1296	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,127.6696	1,127.6696	0.3568		1,136.5892
<b>Total</b>	<b>0.2793</b>	<b>6.1296</b>	<b>7.9624</b>	<b>0.0114</b>		<b>0.3855</b>	<b>0.3855</b>		<b>0.3855</b>	<b>0.3855</b>	<b>0.0000</b>	<b>1,127.6696</b>	<b>1,127.6696</b>	<b>0.3568</b>		<b>1,136.5892</b>

**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	0.0480	1.2409	0.3549	2.6900e-003	0.0677	8.7800e-003	0.0765	0.0195	8.4000e-003	0.0279		288.5003	288.5003	0.0243		289.1081
Worker	0.4441	0.3078	2.9239	8.2000e-003	0.8215	5.8600e-003	0.8273	0.2179	5.4000e-003	0.2233		816.9138	816.9138	0.0264		817.5727
<b>Total</b>	<b>0.4921</b>	<b>1.5486</b>	<b>3.2788</b>	<b>0.0109</b>	<b>0.8892</b>	<b>0.0146</b>	<b>0.9038</b>	<b>0.2374</b>	<b>0.0138</b>	<b>0.2512</b>		<b>1,105.4140</b>	<b>1,105.4140</b>	<b>0.0507</b>		<b>1,106.6808</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, Winter

**3.3 Grading - 2019**

**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	0.7514	6.8242	7.4816	0.0129		0.3153	0.3153		0.2945	0.2945		1,218.2018	1,218.2018	0.3453		1,226.8340
<b>Total</b>	<b>0.7514</b>	<b>6.8242</b>	<b>7.4816</b>	<b>0.0129</b>		<b>0.3153</b>	<b>0.3153</b>		<b>0.2945</b>	<b>0.2945</b>		<b>1,218.2018</b>	<b>1,218.2018</b>	<b>0.3453</b>		<b>1,226.8340</b>

**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	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.0711</b>	<b>0.0492</b>	<b>0.4678</b>	<b>1.3100e-003</b>	<b>0.1314</b>	<b>9.4000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.6000e-004</b>	<b>0.0357</b>		<b>130.7062</b>	<b>130.7062</b>	<b>4.2200e-003</b>		<b>130.8116</b>



Pure Water Dechlorination Facility - San Diego County APCD Air District, Winter

**3.3 Grading - 2019**

**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	0.2554	4.9380	7.8752	0.0129		0.2384	0.2384		0.2384	0.2384	0.0000	1,218.2018	1,218.2018	0.3453		1,226.8340
<b>Total</b>	<b>0.2554</b>	<b>4.9380</b>	<b>7.8752</b>	<b>0.0129</b>		<b>0.2384</b>	<b>0.2384</b>		<b>0.2384</b>	<b>0.2384</b>	<b>0.0000</b>	<b>1,218.2018</b>	<b>1,218.2018</b>	<b>0.3453</b>		<b>1,226.8340</b>

**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	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.0711</b>	<b>0.0492</b>	<b>0.4678</b>	<b>1.3100e-003</b>	<b>0.1314</b>	<b>9.4000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.6000e-004</b>	<b>0.0357</b>		<b>130.7062</b>	<b>130.7062</b>	<b>4.2200e-003</b>		<b>130.8116</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, Winter

**3.4 Paving - 2019**

**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	0.5878	5.8310	5.0598	8.0700e-003		0.3183	0.3183		0.2942	0.2942		786.1223	786.1223	0.2360		792.0218
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5878</b>	<b>5.8310</b>	<b>5.0598</b>	<b>8.0700e-003</b>		<b>0.3183</b>	<b>0.3183</b>		<b>0.2942</b>	<b>0.2942</b>		<b>786.1223</b>	<b>786.1223</b>	<b>0.2360</b>		<b>792.0218</b>

**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	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.0711</b>	<b>0.0492</b>	<b>0.4678</b>	<b>1.3100e-003</b>	<b>0.1314</b>	<b>9.4000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.6000e-004</b>	<b>0.0357</b>		<b>130.7062</b>	<b>130.7062</b>	<b>4.2200e-003</b>		<b>130.8116</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, Winter

**3.4 Paving - 2019**

**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	0.1799	3.7032	5.5468	8.0700e-003		0.2108	0.2108		0.2108	0.2108	0.0000	786.1223	786.1223	0.2360		792.0218
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.1799</b>	<b>3.7032</b>	<b>5.5468</b>	<b>8.0700e-003</b>		<b>0.2108</b>	<b>0.2108</b>		<b>0.2108</b>	<b>0.2108</b>	<b>0.0000</b>	<b>786.1223</b>	<b>786.1223</b>	<b>0.2360</b>		<b>792.0218</b>

**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	0.0711	0.0492	0.4678	1.3100e-003	0.1314	9.4000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.7062	130.7062	4.2200e-003		130.8116
<b>Total</b>	<b>0.0711</b>	<b>0.0492</b>	<b>0.4678</b>	<b>1.3100e-003</b>	<b>0.1314</b>	<b>9.4000e-004</b>	<b>0.1324</b>	<b>0.0349</b>	<b>8.6000e-004</b>	<b>0.0357</b>		<b>130.7062</b>	<b>130.7062</b>	<b>4.2200e-003</b>		<b>130.8116</b>

**4.0 Operational Detail - Mobile**

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Pure Water Dechlorination Facility - San Diego County APCD Air District, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
General Light Industry	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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

Pure Water Dechlorination Facility - San Diego County APCD Air District, 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

Pure Water Dechlorination Facility - San Diego County APCD Air District, 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					
General Light Industry	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					
General Light Industry	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**

Pure Water Dechlorination Facility - San Diego County APCD Air District, 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	0.0434	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.0000e-004	4.0000e-004	0.0000		4.2000e-004
Unmitigated	0.0434	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.0000e-004	4.0000e-004	0.0000		4.2000e-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	lb/day										lb/day					
Architectural Coating	4.6000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0388					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.0000e-004	4.0000e-004	0.0000		4.2000e-004
<b>Total</b>	<b>0.0434</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>4.0000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>		<b>4.2000e-004</b>

Pure Water Dechlorination Facility - San Diego County APCD Air District, 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	4.6000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0388					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.0000e-004	4.0000e-004	0.0000		4.2000e-004
<b>Total</b>	<b>0.0434</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>4.0000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>		<b>4.2000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators



Pure Water Dechlorination Facility - San Diego County APCD Air District, 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**

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**Renewable Energy Facility**  
**San Diego County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	16.98	1000sqft	0.39	16,975.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

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Demolition - See Section 7.2.1 for construction details.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No architectural coatings.

Landscape Equipment - There is no landscaping for this project.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - No solid waste generated.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - Reclaimed water use based on Initial Study DEP No. 96-0071.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.

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Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00

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tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	0.00	3.10
tblLandUse	BuildingSpaceSquareFeet	16,980.00	16,975.00
tblLandUse	LandUseSquareFeet	16,980.00	16,975.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblSolidWaste	SolidWasteGenerationRate	21.06	0.00
tblTripsAndVMT	VendorTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	7.00	8.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	3,926,625.00	36,500.00
tblWater	OutdoorWaterUseRate	0.00	29,565,000.00

## 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	6-1-2020	8-31-2020	0.4558	0.2896
2	9-1-2020	11-30-2020	0.4510	0.2866
3	12-1-2020	2-28-2021	0.4174	0.2825
4	3-1-2021	5-31-2021	0.3917	0.2733
5	6-1-2021	8-31-2021	0.0126	0.0083
		Highest	0.4558	0.2896

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	0.0663	0.0000	1.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-004	3.0000e-004	0.0000	0.0000	3.2000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0116	107.5013	107.5129	5.5200e-003	9.2000e-004	107.9259
<b>Total</b>	<b>0.0663</b>	<b>0.0000</b>	<b>1.6000e-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>0.0116</b>	<b>107.5016</b>	<b>107.5132</b>	<b>5.5200e-003</b>	<b>9.2000e-004</b>	<b>107.9262</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	0.0614	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0116	20.4457	20.4573	2.0100e-003	2.0000e-004	20.5667
<b>Total</b>	<b>0.0614</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0116</b>	<b>20.4459</b>	<b>20.4575</b>	<b>2.0100e-003</b>	<b>2.0000e-004</b>	<b>20.5669</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	7.48	0.00	43.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.98	80.97	63.59	78.26	80.94

**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	Demolition	Demolition	3/2/2020	3/13/2020	5	10	
2	Grading	Grading	3/16/2020	3/27/2020	5	10	
3	Building Construction	Building Construction	3/30/2020	5/21/2021	5	300	
4	Paving	Paving	5/24/2021	6/4/2021	5	10	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 3.1**

**Acres of Paving: 0**

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

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**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
Demolition	4	10.00	0.00	14.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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**3.2 Demolition - 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					1.4900e-003	0.0000	1.4900e-003	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5800e-003	0.0942	0.0619	1.0000e-004		5.1000e-003	5.1000e-003		4.7700e-003	4.7700e-003	0.0000	9.1696	9.1696	2.2700e-003	0.0000	9.2262
<b>Total</b>	<b>9.5800e-003</b>	<b>0.0942</b>	<b>0.0619</b>	<b>1.0000e-004</b>	<b>1.4900e-003</b>	<b>5.1000e-003</b>	<b>6.5900e-003</b>	<b>2.3000e-004</b>	<b>4.7700e-003</b>	<b>5.0000e-003</b>	<b>0.0000</b>	<b>9.1696</b>	<b>9.1696</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>9.2262</b>

**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	6.0000e-005	1.9900e-003	4.6000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5399	0.5399	5.0000e-005	0.0000	0.5411
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	1.8000e-004	1.4000e-004	1.3400e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3624	0.3624	1.0000e-005	0.0000	0.3627
<b>Total</b>	<b>2.4000e-004</b>	<b>2.1300e-003</b>	<b>1.8000e-003</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.3000e-004</b>	<b>1.4000e-004</b>	<b>1.0000e-005</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.9023</b>	<b>0.9023</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.9038</b>

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**3.2 Demolition - 2020**

**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					6.7000e-004	0.0000	6.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4300e-003	0.0518	0.0654	1.0000e-004		2.9800e-003	2.9800e-003		2.9800e-003	2.9800e-003	0.0000	9.1696	9.1696	2.2700e-003	0.0000	9.2262
<b>Total</b>	<b>2.4300e-003</b>	<b>0.0518</b>	<b>0.0654</b>	<b>1.0000e-004</b>	<b>6.7000e-004</b>	<b>2.9800e-003</b>	<b>3.6500e-003</b>	<b>1.0000e-004</b>	<b>2.9800e-003</b>	<b>3.0800e-003</b>	<b>0.0000</b>	<b>9.1696</b>	<b>9.1696</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>9.2262</b>

**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	6.0000e-005	1.9900e-003	4.6000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5399	0.5399	5.0000e-005	0.0000	0.5411
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	1.8000e-004	1.4000e-004	1.3400e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3624	0.3624	1.0000e-005	0.0000	0.3627
<b>Total</b>	<b>2.4000e-004</b>	<b>2.1300e-003</b>	<b>1.8000e-003</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.3000e-004</b>	<b>1.4000e-004</b>	<b>1.0000e-005</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.9023</b>	<b>0.9023</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.9038</b>

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**3.3 Grading - 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					0.0257	0.0000	0.0257	0.0134	0.0000	0.0134	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5800e-003	0.0942	0.0619	1.0000e-004		5.1000e-003	5.1000e-003		4.7700e-003	4.7700e-003	0.0000	9.1696	9.1696	2.2700e-003	0.0000	9.2262
<b>Total</b>	<b>9.5800e-003</b>	<b>0.0942</b>	<b>0.0619</b>	<b>1.0000e-004</b>	<b>0.0257</b>	<b>5.1000e-003</b>	<b>0.0308</b>	<b>0.0134</b>	<b>4.7700e-003</b>	<b>0.0182</b>	<b>0.0000</b>	<b>9.1696</b>	<b>9.1696</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>9.2262</b>

**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	1.8000e-004	1.4000e-004	1.3400e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3624	0.3624	1.0000e-005	0.0000	0.3627
<b>Total</b>	<b>1.8000e-004</b>	<b>1.4000e-004</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3624</b>	<b>0.3624</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3627</b>

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**3.3 Grading - 2020**

**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					0.0116	0.0000	0.0116	6.0400e-003	0.0000	6.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4300e-003	0.0518	0.0654	1.0000e-004		2.9800e-003	2.9800e-003		2.9800e-003	2.9800e-003	0.0000	9.1696	9.1696	2.2700e-003	0.0000	9.2262
<b>Total</b>	<b>2.4300e-003</b>	<b>0.0518</b>	<b>0.0654</b>	<b>1.0000e-004</b>	<b>0.0116</b>	<b>2.9800e-003</b>	<b>0.0146</b>	<b>6.0400e-003</b>	<b>2.9800e-003</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>9.1696</b>	<b>9.1696</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>9.2262</b>

**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	1.8000e-004	1.4000e-004	1.3400e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3624	0.3624	1.0000e-005	0.0000	0.3627
<b>Total</b>	<b>1.8000e-004</b>	<b>1.4000e-004</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3624</b>	<b>0.3624</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3627</b>

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**3.4 Building Construction - 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					
Off-Road	0.1155	1.2136	0.8990	1.5000e-003		0.0678	0.0678		0.0624	0.0624	0.0000	131.4607	131.4607	0.0425	0.0000	132.5236
<b>Total</b>	<b>0.1155</b>	<b>1.2136</b>	<b>0.8990</b>	<b>1.5000e-003</b>		<b>0.0678</b>	<b>0.0678</b>		<b>0.0624</b>	<b>0.0624</b>	<b>0.0000</b>	<b>131.4607</b>	<b>131.4607</b>	<b>0.0425</b>	<b>0.0000</b>	<b>132.5236</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0454	0.0121	1.1000e-004	2.6400e-003	2.2000e-004	2.8600e-003	7.6000e-004	2.1000e-004	9.7000e-004	0.0000	10.5017	10.5017	8.0000e-004	0.0000	10.5218
Worker	2.9300e-003	2.1700e-003	0.0213	6.0000e-005	6.3800e-003	5.0000e-005	6.4300e-003	1.7000e-003	4.0000e-005	1.7400e-003	0.0000	5.7700	5.7700	1.7000e-004	0.0000	5.7743
<b>Total</b>	<b>4.4500e-003</b>	<b>0.0475</b>	<b>0.0334</b>	<b>1.7000e-004</b>	<b>9.0200e-003</b>	<b>2.7000e-004</b>	<b>9.2900e-003</b>	<b>2.4600e-003</b>	<b>2.5000e-004</b>	<b>2.7100e-003</b>	<b>0.0000</b>	<b>16.2717</b>	<b>16.2717</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>16.2962</b>

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**3.4 Building Construction - 2020**

**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	0.0367	0.7891	1.0029	1.5000e-003		0.0465	0.0465		0.0465	0.0465	0.0000	131.4606	131.4606	0.0425	0.0000	132.5235
<b>Total</b>	<b>0.0367</b>	<b>0.7891</b>	<b>1.0029</b>	<b>1.5000e-003</b>		<b>0.0465</b>	<b>0.0465</b>		<b>0.0465</b>	<b>0.0465</b>	<b>0.0000</b>	<b>131.4606</b>	<b>131.4606</b>	<b>0.0425</b>	<b>0.0000</b>	<b>132.5235</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5200e-003	0.0454	0.0121	1.1000e-004	2.6400e-003	2.2000e-004	2.8600e-003	7.6000e-004	2.1000e-004	9.7000e-004	0.0000	10.5017	10.5017	8.0000e-004	0.0000	10.5218
Worker	2.9300e-003	2.1700e-003	0.0213	6.0000e-005	6.3800e-003	5.0000e-005	6.4300e-003	1.7000e-003	4.0000e-005	1.7400e-003	0.0000	5.7700	5.7700	1.7000e-004	0.0000	5.7743
<b>Total</b>	<b>4.4500e-003</b>	<b>0.0475</b>	<b>0.0334</b>	<b>1.7000e-004</b>	<b>9.0200e-003</b>	<b>2.7000e-004</b>	<b>9.2900e-003</b>	<b>2.4600e-003</b>	<b>2.5000e-004</b>	<b>2.7100e-003</b>	<b>0.0000</b>	<b>16.2717</b>	<b>16.2717</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>16.2962</b>



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**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0528	0.5555	0.4464	7.6000e-004		0.0297	0.0297		0.0273	0.0273	0.0000	66.7310	66.7310	0.0216	0.0000	67.2706
<b>Total</b>	<b>0.0528</b>	<b>0.5555</b>	<b>0.4464</b>	<b>7.6000e-004</b>		<b>0.0297</b>	<b>0.0297</b>		<b>0.0273</b>	<b>0.0273</b>	<b>0.0000</b>	<b>66.7310</b>	<b>66.7310</b>	<b>0.0216</b>	<b>0.0000</b>	<b>67.2706</b>

**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	6.2000e-004	0.0208	5.5400e-003	5.0000e-005	1.3400e-003	4.0000e-005	1.3800e-003	3.9000e-004	4.0000e-005	4.3000e-004	0.0000	5.2811	5.2811	3.9000e-004	0.0000	5.2909
Worker	1.4000e-003	1.0000e-003	0.0101	3.0000e-005	3.2400e-003	2.0000e-005	3.2600e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.8301	2.8301	8.0000e-005	0.0000	2.8321
<b>Total</b>	<b>2.0200e-003</b>	<b>0.0218</b>	<b>0.0156</b>	<b>8.0000e-005</b>	<b>4.5800e-003</b>	<b>6.0000e-005</b>	<b>4.6400e-003</b>	<b>1.2500e-003</b>	<b>6.0000e-005</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>8.1112</b>	<b>8.1112</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>8.1230</b>

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**3.4 Building Construction - 2021**

**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	0.0186	0.4005	0.5090	7.6000e-004		0.0236	0.0236		0.0236	0.0236	0.0000	66.7309	66.7309	0.0216	0.0000	67.2705
<b>Total</b>	<b>0.0186</b>	<b>0.4005</b>	<b>0.5090</b>	<b>7.6000e-004</b>		<b>0.0236</b>	<b>0.0236</b>		<b>0.0236</b>	<b>0.0236</b>	<b>0.0000</b>	<b>66.7309</b>	<b>66.7309</b>	<b>0.0216</b>	<b>0.0000</b>	<b>67.2705</b>

**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	6.2000e-004	0.0208	5.5400e-003	5.0000e-005	1.3400e-003	4.0000e-005	1.3800e-003	3.9000e-004	4.0000e-005	4.3000e-004	0.0000	5.2811	5.2811	3.9000e-004	0.0000	5.2909
Worker	1.4000e-003	1.0000e-003	0.0101	3.0000e-005	3.2400e-003	2.0000e-005	3.2600e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.8301	2.8301	8.0000e-005	0.0000	2.8321
<b>Total</b>	<b>2.0200e-003</b>	<b>0.0218</b>	<b>0.0156</b>	<b>8.0000e-005</b>	<b>4.5800e-003</b>	<b>6.0000e-005</b>	<b>4.6400e-003</b>	<b>1.2500e-003</b>	<b>6.0000e-005</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>8.1112</b>	<b>8.1112</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>8.1230</b>

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**3.5 Paving - 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	4.2900e-003	0.0394	0.0414	7.0000e-005		2.0600e-003	2.0600e-003		1.9200e-003	1.9200e-003	0.0000	5.4981	5.4981	1.5800e-003	0.0000	5.5375
Paving	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>4.2900e-003</b>	<b>0.0394</b>	<b>0.0414</b>	<b>7.0000e-005</b>		<b>2.0600e-003</b>	<b>2.0600e-003</b>		<b>1.9200e-003</b>	<b>1.9200e-003</b>	<b>0.0000</b>	<b>5.4981</b>	<b>5.4981</b>	<b>1.5800e-003</b>	<b>0.0000</b>	<b>5.5375</b>

**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	3.1000e-004	2.2000e-004	2.2500e-003	1.0000e-005	7.2000e-004	1.0000e-005	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6305	0.6305	2.0000e-005	0.0000	0.6309
<b>Total</b>	<b>3.1000e-004</b>	<b>2.2000e-004</b>	<b>2.2500e-003</b>	<b>1.0000e-005</b>	<b>7.2000e-004</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.6305</b>	<b>0.6305</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6309</b>

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**3.5 Paving - 2021**

**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	1.2800e-003	0.0272	0.0394	7.0000e-005		1.6600e-003	1.6600e-003		1.6600e-003	1.6600e-003	0.0000	5.4981	5.4981	1.5800e-003	0.0000	5.5375
Paving	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>1.2800e-003</b>	<b>0.0272</b>	<b>0.0394</b>	<b>7.0000e-005</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>		<b>1.6600e-003</b>	<b>1.6600e-003</b>	<b>0.0000</b>	<b>5.4981</b>	<b>5.4981</b>	<b>1.5800e-003</b>	<b>0.0000</b>	<b>5.5375</b>

**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	3.1000e-004	2.2000e-004	2.2500e-003	1.0000e-005	7.2000e-004	1.0000e-005	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6305	0.6305	2.0000e-005	0.0000	0.6309
<b>Total</b>	<b>3.1000e-004</b>	<b>2.2000e-004</b>	<b>2.2500e-003</b>	<b>1.0000e-005</b>	<b>7.2000e-004</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.6305</b>	<b>0.6305</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6309</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122





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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			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



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Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.0614	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Unmitigated	0.0663	0.0000	1.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-004	3.0000e-004	0.0000	0.0000	3.2000e-004

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0663					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-004	3.0000e-004	0.0000	0.0000	3.2000e-004
<b>Total</b>	<b>0.0663</b>	<b>0.0000</b>	<b>1.6000e-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>3.0000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.2000e-004</b>

**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	0.0613					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	9.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
<b>Total</b>	<b>0.0614</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>

**7.0 Water Detail**

Renewable Energy Facility - San Diego County APCD Air District, Annual

### 7.1 Mitigation Measures Water

#### Use Reclaimed Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	20.4573	2.0100e-003	2.0000e-004	20.5667
Unmitigated	107.5129	5.5200e-003	9.2000e-004	107.9259

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.0365 / 29.565	107.5129	5.5200e-003	9.2000e-004	107.9259
<b>Total</b>		<b>107.5129</b>	<b>5.5200e-003</b>	<b>9.2000e-004</b>	<b>107.9259</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			
General Light Industry	0.0365 / 5.58834	20.4573	2.0100e-003	2.0000e-004	20.5667
<b>Total</b>		<b>20.4573</b>	<b>2.0100e-003</b>	<b>2.0000e-004</b>	<b>20.5667</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

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	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			
General Light Industry	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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**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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Renewable Energy Facility - San Diego County APCD Air District, Summer

**Renewable Energy Facility**  
**San Diego County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	16.98	1000sqft	0.39	16,975.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Renewable Energy Facility - San Diego County APCD Air District, Summer

Demolition - See Section 7.2.1 for construction details.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No architectural coatings.

Landscape Equipment - There is no landscaping for this project.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - No solid waste generated.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - Reclaimed water use based on Initial Study DEP No. 96-0071.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.



Renewable Energy Facility - San Diego County APCD Air District, Summer

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00

## Renewable Energy Facility - San Diego County APCD Air District, Summer

tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	0.00	3.10
tblLandUse	BuildingSpaceSquareFeet	16,980.00	16,975.00
tblLandUse	LandUseSquareFeet	16,980.00	16,975.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblSolidWaste	SolidWasteGenerationRate	21.06	0.00
tblTripsAndVMT	VendorTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	7.00	8.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	3,926,625.00	36,500.00
tblWater	OutdoorWaterUseRate	0.00	29,565,000.00

## 2.0 Emissions Summary

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Renewable Energy Facility - San Diego County APCD Air District, 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	0.3634	2.0000e-005	1.7400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.7200e-003	3.7200e-003	1.0000e-005		3.9600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.3634</b>	<b>2.0000e-005</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.9600e-003</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	0.3362	1.0000e-005	1.0100e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-003	2.0000e-003	0.0000		2.1100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.3362</b>	<b>1.0000e-005</b>	<b>1.0100e-003</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>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.1100e-003</b>

## Renewable Energy Facility - San Diego County APCD Air District, 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	7.50	50.00	41.95	0.00	0.00	100.00	100.00	0.00	100.00	100.00	0.00	46.24	46.24	100.00	0.00	46.72

### 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	Demolition	Demolition	3/2/2020	3/13/2020	5	10	
2	Grading	Grading	3/16/2020	3/27/2020	5	10	
3	Building Construction	Building Construction	3/30/2020	5/21/2021	5	300	
4	Paving	Paving	5/24/2021	6/4/2021	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.1

Acres of Paving: 0

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

OffRoad Equipment

Renewable Energy Facility - San Diego County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**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
Demolition	4	10.00	0.00	14.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Renewable Energy Facility - San Diego County APCD Air District, Summer

**3.2 Demolition - 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					0.2990	0.0000	0.2990	0.0453	0.0000	0.0453			0.0000			0.0000
Off-Road	1.9167	18.8412	12.3776	0.0210		1.0194	1.0194		0.9537	0.9537		2,021.544 2	2,021.544 2	0.4997		2,034.036 0
<b>Total</b>	<b>1.9167</b>	<b>18.8412</b>	<b>12.3776</b>	<b>0.0210</b>	<b>0.2990</b>	<b>1.0194</b>	<b>1.3184</b>	<b>0.0453</b>	<b>0.9537</b>	<b>0.9990</b>		<b>2,021.544 2</b>	<b>2,021.544 2</b>	<b>0.4997</b>		<b>2,034.036 0</b>

**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	0.0111	0.3906	0.0887	1.1000e-003	0.0245	1.2500e-003	0.0257	6.7000e-003	1.1900e-003	7.9000e-003		119.8857	119.8857	0.0106		120.1497
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	0.0367	0.0247	0.2835	8.5000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		84.2747	84.2747	2.5200e-003		84.3376
<b>Total</b>	<b>0.0478</b>	<b>0.4153</b>	<b>0.3721</b>	<b>1.9500e-003</b>	<b>0.1066</b>	<b>1.8300e-003</b>	<b>0.1084</b>	<b>0.0285</b>	<b>1.7200e-003</b>	<b>0.0302</b>		<b>204.1604</b>	<b>204.1604</b>	<b>0.0131</b>		<b>204.4874</b>

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**3.2 Demolition - 2020**

**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					0.1346	0.0000	0.1346	0.0204	0.0000	0.0204			0.0000			0.0000
Off-Road	0.4862	10.3690	13.0734	0.0210		0.5966	0.5966		0.5966	0.5966	0.0000	2,021.544 2	2,021.544 2	0.4997		2,034.036 0
<b>Total</b>	<b>0.4862</b>	<b>10.3690</b>	<b>13.0734</b>	<b>0.0210</b>	<b>0.1346</b>	<b>0.5966</b>	<b>0.7312</b>	<b>0.0204</b>	<b>0.5966</b>	<b>0.6170</b>	<b>0.0000</b>	<b>2,021.544 2</b>	<b>2,021.544 2</b>	<b>0.4997</b>		<b>2,034.036 0</b>

**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	0.0111	0.3906	0.0887	1.1000e-003	0.0245	1.2500e-003	0.0257	6.7000e-003	1.1900e-003	7.9000e-003		119.8857	119.8857	0.0106		120.1497
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	0.0367	0.0247	0.2835	8.5000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		84.2747	84.2747	2.5200e-003		84.3376
<b>Total</b>	<b>0.0478</b>	<b>0.4153</b>	<b>0.3721</b>	<b>1.9500e-003</b>	<b>0.1066</b>	<b>1.8300e-003</b>	<b>0.1084</b>	<b>0.0285</b>	<b>1.7200e-003</b>	<b>0.0302</b>		<b>204.1604</b>	<b>204.1604</b>	<b>0.0131</b>		<b>204.4874</b>



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**3.3 Grading - 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					5.1464	0.0000	5.1464	2.6837	0.0000	2.6837			0.0000			0.0000
Off-Road	1.9167	18.8412	12.3776	0.0210		1.0194	1.0194		0.9537	0.9537		2,021.544 2	2,021.544 2	0.4997		2,034.036 0
<b>Total</b>	<b>1.9167</b>	<b>18.8412</b>	<b>12.3776</b>	<b>0.0210</b>	<b>5.1464</b>	<b>1.0194</b>	<b>6.1658</b>	<b>2.6837</b>	<b>0.9537</b>	<b>3.6374</b>		<b>2,021.544 2</b>	<b>2,021.544 2</b>	<b>0.4997</b>		<b>2,034.036 0</b>

**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	0.0367	0.0247	0.2835	8.5000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		84.2747	84.2747	2.5200e-003		84.3376
<b>Total</b>	<b>0.0367</b>	<b>0.0247</b>	<b>0.2835</b>	<b>8.5000e-004</b>	<b>0.0822</b>	<b>5.8000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.3000e-004</b>	<b>0.0223</b>		<b>84.2747</b>	<b>84.2747</b>	<b>2.5200e-003</b>		<b>84.3376</b>

Renewable Energy Facility - San Diego County APCD Air District, Summer

**3.3 Grading - 2020**

**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					2.3159	0.0000	2.3159	1.2077	0.0000	1.2077			0.0000			0.0000
Off-Road	0.4862	10.3690	13.0734	0.0210		0.5966	0.5966		0.5966	0.5966	0.0000	2,021.544 2	2,021.544 2	0.4997		2,034.036 0
<b>Total</b>	<b>0.4862</b>	<b>10.3690</b>	<b>13.0734</b>	<b>0.0210</b>	<b>2.3159</b>	<b>0.5966</b>	<b>2.9125</b>	<b>1.2077</b>	<b>0.5966</b>	<b>1.8043</b>	<b>0.0000</b>	<b>2,021.544 2</b>	<b>2,021.544 2</b>	<b>0.4997</b>		<b>2,034.036 0</b>

**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	0.0367	0.0247	0.2835	8.5000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		84.2747	84.2747	2.5200e-003		84.3376
<b>Total</b>	<b>0.0367</b>	<b>0.0247</b>	<b>0.2835</b>	<b>8.5000e-004</b>	<b>0.0822</b>	<b>5.8000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.3000e-004</b>	<b>0.0223</b>		<b>84.2747</b>	<b>84.2747</b>	<b>2.5200e-003</b>		<b>84.3376</b>

Renewable Energy Facility - San Diego County APCD Air District, Summer

**3.4 Building Construction - 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					
Off-Road	1.1604	12.1968	9.0353	0.0150		0.6818	0.6818		0.6273	0.6273		1,456.3883	1,456.3883	0.4710		1,468.1640
<b>Total</b>	<b>1.1604</b>	<b>12.1968</b>	<b>9.0353</b>	<b>0.0150</b>		<b>0.6818</b>	<b>0.6818</b>		<b>0.6273</b>	<b>0.6273</b>		<b>1,456.3883</b>	<b>1,456.3883</b>	<b>0.4710</b>		<b>1,468.1640</b>

**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	0.0150	0.4510	0.1149	1.1000e-003	0.0271	2.2100e-003	0.0293	7.8000e-003	2.1100e-003	9.9100e-003		117.6160	117.6160	8.6800e-003		117.8330
Worker	0.0294	0.0198	0.2268	6.8000e-004	0.0657	4.6000e-004	0.0662	0.0174	4.2000e-004	0.0179		67.4198	67.4198	2.0100e-003		67.4701
<b>Total</b>	<b>0.0443</b>	<b>0.4708</b>	<b>0.3417</b>	<b>1.7800e-003</b>	<b>0.0928</b>	<b>2.6700e-003</b>	<b>0.0955</b>	<b>0.0252</b>	<b>2.5300e-003</b>	<b>0.0278</b>		<b>185.0358</b>	<b>185.0358</b>	<b>0.0107</b>		<b>185.3030</b>

Renewable Energy Facility - San Diego County APCD Air District, Summer

**3.4 Building Construction - 2020**

**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	0.3690	7.9303	10.0792	0.0150		0.4676	0.4676		0.4676	0.4676	0.0000	1,456.3883	1,456.3883	0.4710		1,468.1639
<b>Total</b>	<b>0.3690</b>	<b>7.9303</b>	<b>10.0792</b>	<b>0.0150</b>		<b>0.4676</b>	<b>0.4676</b>		<b>0.4676</b>	<b>0.4676</b>	<b>0.0000</b>	<b>1,456.3883</b>	<b>1,456.3883</b>	<b>0.4710</b>		<b>1,468.1639</b>

**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	0.0150	0.4510	0.1149	1.1000e-003	0.0271	2.2100e-003	0.0293	7.8000e-003	2.1100e-003	9.9100e-003		117.6160	117.6160	8.6800e-003		117.8330
Worker	0.0294	0.0198	0.2268	6.8000e-004	0.0657	4.6000e-004	0.0662	0.0174	4.2000e-004	0.0179		67.4198	67.4198	2.0100e-003		67.4701
<b>Total</b>	<b>0.0443</b>	<b>0.4708</b>	<b>0.3417</b>	<b>1.7800e-003</b>	<b>0.0928</b>	<b>2.6700e-003</b>	<b>0.0955</b>	<b>0.0252</b>	<b>2.5300e-003</b>	<b>0.0278</b>		<b>185.0358</b>	<b>185.0358</b>	<b>0.0107</b>		<b>185.3030</b>

Renewable Energy Facility - San Diego County APCD Air District, Summer

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0461	10.9992	8.8390	0.0150		0.5878	0.5878		0.5408	0.5408		1,456.6006	1,456.6006	0.4711		1,468.3779
<b>Total</b>	<b>1.0461</b>	<b>10.9992</b>	<b>8.8390</b>	<b>0.0150</b>		<b>0.5878</b>	<b>0.5878</b>		<b>0.5408</b>	<b>0.5408</b>		<b>1,456.6006</b>	<b>1,456.6006</b>	<b>0.4711</b>		<b>1,468.3779</b>

**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	0.0121	0.4073	0.1038	1.0800e-003	0.0271	8.6000e-004	0.0279	7.8000e-003	8.2000e-004	8.6100e-003		116.5408	116.5408	8.3300e-003		116.7490
Worker	0.0277	0.0180	0.2122	6.5000e-004	0.0657	4.5000e-004	0.0662	0.0174	4.2000e-004	0.0179		65.1553	65.1553	1.8600e-003		65.2018
<b>Total</b>	<b>0.0398</b>	<b>0.4253</b>	<b>0.3160</b>	<b>1.7300e-003</b>	<b>0.0928</b>	<b>1.3100e-003</b>	<b>0.0941</b>	<b>0.0252</b>	<b>1.2400e-003</b>	<b>0.0265</b>		<b>181.6961</b>	<b>181.6961</b>	<b>0.0102</b>		<b>181.9507</b>

Renewable Energy Facility - San Diego County APCD Air District, Summer

**3.4 Building Construction - 2021**

**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	0.3690	7.9303	10.0792	0.0150		0.4676	0.4676		0.4676	0.4676	0.0000	1,456.6006	1,456.6006	0.4711		1,468.3779
<b>Total</b>	<b>0.3690</b>	<b>7.9303</b>	<b>10.0792</b>	<b>0.0150</b>		<b>0.4676</b>	<b>0.4676</b>		<b>0.4676</b>	<b>0.4676</b>	<b>0.0000</b>	<b>1,456.6006</b>	<b>1,456.6006</b>	<b>0.4711</b>		<b>1,468.3779</b>

**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	0.0121	0.4073	0.1038	1.0800e-003	0.0271	8.6000e-004	0.0279	7.8000e-003	8.2000e-004	8.6100e-003		116.5408	116.5408	8.3300e-003		116.7490
Worker	0.0277	0.0180	0.2122	6.5000e-004	0.0657	4.5000e-004	0.0662	0.0174	4.2000e-004	0.0179		65.1553	65.1553	1.8600e-003		65.2018
<b>Total</b>	<b>0.0398</b>	<b>0.4253</b>	<b>0.3160</b>	<b>1.7300e-003</b>	<b>0.0928</b>	<b>1.3100e-003</b>	<b>0.0941</b>	<b>0.0252</b>	<b>1.2400e-003</b>	<b>0.0265</b>		<b>181.6961</b>	<b>181.6961</b>	<b>0.0102</b>		<b>181.9507</b>

Renewable Energy Facility - San Diego County APCD Air District, Summer

**3.5 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8580	7.8878	8.2789	0.0133		0.4121	0.4121		0.3837	0.3837		1,212.1151	1,212.1151	0.3477		1,220.8063
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8580</b>	<b>7.8878</b>	<b>8.2789</b>	<b>0.0133</b>		<b>0.4121</b>	<b>0.4121</b>		<b>0.3837</b>	<b>0.3837</b>		<b>1,212.1151</b>	<b>1,212.1151</b>	<b>0.3477</b>		<b>1,220.8063</b>

**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	0.0623	0.0405	0.4774	1.4700e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402		146.5994	146.5994	4.1800e-003		146.7040
<b>Total</b>	<b>0.0623</b>	<b>0.0405</b>	<b>0.4774</b>	<b>1.4700e-003</b>	<b>0.1479</b>	<b>1.0200e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.4000e-004</b>	<b>0.0402</b>		<b>146.5994</b>	<b>146.5994</b>	<b>4.1800e-003</b>		<b>146.7040</b>

Renewable Energy Facility - San Diego County APCD Air District, Summer

**3.5 Paving - 2021**

**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	0.2559	5.4376	7.8889	0.0133		0.3323	0.3323		0.3323	0.3323	0.0000	1,212.1151	1,212.1151	0.3477		1,220.8063
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2559</b>	<b>5.4376</b>	<b>7.8889</b>	<b>0.0133</b>		<b>0.3323</b>	<b>0.3323</b>		<b>0.3323</b>	<b>0.3323</b>	<b>0.0000</b>	<b>1,212.1151</b>	<b>1,212.1151</b>	<b>0.3477</b>		<b>1,220.8063</b>

**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	0.0623	0.0405	0.4774	1.4700e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402		146.5994	146.5994	4.1800e-003		146.7040
<b>Total</b>	<b>0.0623</b>	<b>0.0405</b>	<b>0.4774</b>	<b>1.4700e-003</b>	<b>0.1479</b>	<b>1.0200e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.4000e-004</b>	<b>0.0402</b>		<b>146.5994</b>	<b>146.5994</b>	<b>4.1800e-003</b>		<b>146.7040</b>

**4.0 Operational Detail - Mobile**



Renewable Energy Facility - San Diego County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
General Light Industry	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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

Renewable Energy Facility - San Diego County APCD Air District, 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

Renewable Energy Facility - San Diego County APCD Air District, 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					
General Light Industry	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					
General Light Industry	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**

Renewable Energy Facility - San Diego County APCD Air District, Summer

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.3362	1.0000e-005	1.0100e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-003	2.0000e-003	0.0000		2.1100e-003
Unmitigated	0.3634	2.0000e-005	1.7400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.7200e-003	3.7200e-003	1.0000e-005		3.9600e-003

Renewable Energy Facility - San Diego County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6000e-004	2.0000e-005	1.7400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.7200e-003	3.7200e-003	1.0000e-005		3.9600e-003
<b>Total</b>	<b>0.3634</b>	<b>2.0000e-005</b>	<b>1.7400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>1.0000e-005</b>		<b>3.9600e-003</b>

**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	0.3361					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.0000e-005	1.0000e-005	1.0100e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-003	2.0000e-003	0.0000		2.1100e-003
<b>Total</b>	<b>0.3362</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>		<b>2.1100e-003</b>

**7.0 Water Detail**

## Renewable Energy Facility - San Diego County APCD Air District, Summer

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**7.1 Mitigation Measures Water**

Use Reclaimed Water

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**8.0 Waste Detail****8.1 Mitigation Measures Waste**

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**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

Renewable Energy Facility - San Diego County APCD Air District, Winter

**Renewable Energy Facility**  
**San Diego County APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	16.98	1000sqft	0.39	16,975.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<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**

Project Characteristics - See Section 1.3, Project Description.

Land Use - See Section 1.3, Project Description. Based on design documents provided by the City.

Construction Phase - Based on information provided by the City.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Off-road Equipment - See Section 7.2.1 for Construction Details.

Trips and VMT - See Section 7.2.1 for trip information.

On-road Fugitive Dust - CalEEMod Defaults.

Renewable Energy Facility - San Diego County APCD Air District, Winter

Demolition - See Section 7.2.1 for construction details.

Grading - See Section 7.2.1 for Construction Details.

Architectural Coating - No architectural coatings.

Vehicle Trips - See Section 7.2.2 for mobile source information.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Vehicle Emission Factors - CalEEMod defaults.

Road Dust - CalEEMod defaults.

Woodstoves - No hearths.

Consumer Products - No consumer products.

Area Coating - No architectural coatings.

Landscape Equipment - There is no landscaping for this project.

Energy Use - Energy use calculated outside of CalEEMod.

Water And Wastewater - Based on City provided information.

Solid Waste - No solid waste generated.

Land Use Change - No land use change.

Sequestration - No land use change.

Construction Off-road Equipment Mitigation - Per MM1, all construction equipment will be at least Tier 3. See Section 7.2.1 Construction Impacts for more information.

Mobile Land Use Mitigation - No traffic mitigation.

Mobile Commute Mitigation - No traffic mitigation.

Area Mitigation - No architectural coatings. Electric landscape equipment is implemented to show no landscaping equipment as model will not take out the summer days.

Energy Mitigation - No energy mitigation.

Water Mitigation - Reclaimed water use based on Initial Study DEP No. 96-0071.

Waste Mitigation - No solid waste mitigation.

Stationary Sources - Emergency Generators and Fire Pumps - No stationary sources.

Stationary Sources - Process Boilers - No stationary sources.



Renewable Energy Facility - San Diego County APCD Air District, Winter

Stationary Sources - User Defined - No stationary sources.

Stationary Sources - Emergency Generators and Fire Pumps EF - No stationary sources.

Stationary Sources - Process Boilers EF - No stationary sources.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	0
tblAreaCoating	Area_EF_Nonresidential_Interior	250	0
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	2.91	0.00
tblEnergyUse	NT24E	4.27	0.00

## Renewable Energy Facility - San Diego County APCD Air District, Winter

tblEnergyUse	NT24NG	7.25	0.00
tblEnergyUse	T24E	1.27	0.00
tblEnergyUse	T24NG	4.34	0.00
tblGrading	AcresOfGrading	0.00	3.10
tblLandUse	BuildingSpaceSquareFeet	16,980.00	16,975.00
tblLandUse	LandUseSquareFeet	16,980.00	16,975.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblSolidWaste	SolidWasteGenerationRate	21.06	0.00
tblTripsAndVMT	VendorTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	7.00	8.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	3,926,625.00	36,500.00
tblWater	OutdoorWaterUseRate	0.00	29,565,000.00

## 2.0 Emissions Summary

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Renewable Energy Facility - San Diego County APCD Air District, 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	0.3634	2.0000e-005	1.7400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.7200e-003	3.7200e-003	1.0000e-005		3.9600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.3634</b>	<b>2.0000e-005</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.9600e-003</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	0.3362	1.0000e-005	1.0100e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-003	2.0000e-003	0.0000		2.1100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>0.3362</b>	<b>1.0000e-005</b>	<b>1.0100e-003</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>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.1100e-003</b>

## Renewable Energy Facility - San Diego County APCD Air District, 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	7.50	50.00	41.95	0.00	0.00	100.00	100.00	0.00	100.00	100.00	0.00	46.24	46.24	100.00	0.00	46.72

### 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	Demolition	Demolition	3/2/2020	3/13/2020	5	10	
2	Grading	Grading	3/16/2020	3/27/2020	5	10	
3	Building Construction	Building Construction	3/30/2020	5/21/2021	5	300	
4	Paving	Paving	5/24/2021	6/4/2021	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.1

Acres of Paving: 0

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

OffRoad Equipment

Renewable Energy Facility - San Diego County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**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
Demolition	4	10.00	0.00	14.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Renewable Energy Facility - San Diego County APCD Air District, Winter

**3.2 Demolition - 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					0.2990	0.0000	0.2990	0.0453	0.0000	0.0453			0.0000			0.0000
Off-Road	1.9167	18.8412	12.3776	0.0210		1.0194	1.0194		0.9537	0.9537		2,021.544 2	2,021.544 2	0.4997		2,034.036 0
<b>Total</b>	<b>1.9167</b>	<b>18.8412</b>	<b>12.3776</b>	<b>0.0210</b>	<b>0.2990</b>	<b>1.0194</b>	<b>1.3184</b>	<b>0.0453</b>	<b>0.9537</b>	<b>0.9990</b>		<b>2,021.544 2</b>	<b>2,021.544 2</b>	<b>0.4997</b>		<b>2,034.036 0</b>

**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	0.0114	0.3943	0.0945	1.0800e-003	0.0245	1.2700e-003	0.0257	6.7000e-003	1.2200e-003	7.9200e-003		117.8290	117.8290	0.0109		118.1020
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	0.0416	0.0278	0.2673	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		79.1132	79.1132	2.3800e-003		79.1727
<b>Total</b>	<b>0.0529</b>	<b>0.4221</b>	<b>0.3618</b>	<b>1.8700e-003</b>	<b>0.1066</b>	<b>1.8500e-003</b>	<b>0.1085</b>	<b>0.0285</b>	<b>1.7500e-003</b>	<b>0.0302</b>		<b>196.9422</b>	<b>196.9422</b>	<b>0.0133</b>		<b>197.2748</b>

Renewable Energy Facility - San Diego County APCD Air District, Winter

**3.2 Demolition - 2020**

**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					0.1346	0.0000	0.1346	0.0204	0.0000	0.0204			0.0000			0.0000
Off-Road	0.4862	10.3690	13.0734	0.0210		0.5966	0.5966		0.5966	0.5966	0.0000	2,021.544 2	2,021.544 2	0.4997		2,034.036 0
<b>Total</b>	<b>0.4862</b>	<b>10.3690</b>	<b>13.0734</b>	<b>0.0210</b>	<b>0.1346</b>	<b>0.5966</b>	<b>0.7312</b>	<b>0.0204</b>	<b>0.5966</b>	<b>0.6170</b>	<b>0.0000</b>	<b>2,021.544 2</b>	<b>2,021.544 2</b>	<b>0.4997</b>		<b>2,034.036 0</b>

**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	0.0114	0.3943	0.0945	1.0800e-003	0.0245	1.2700e-003	0.0257	6.7000e-003	1.2200e-003	7.9200e-003		117.8290	117.8290	0.0109		118.1020
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	0.0416	0.0278	0.2673	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		79.1132	79.1132	2.3800e-003		79.1727
<b>Total</b>	<b>0.0529</b>	<b>0.4221</b>	<b>0.3618</b>	<b>1.8700e-003</b>	<b>0.1066</b>	<b>1.8500e-003</b>	<b>0.1085</b>	<b>0.0285</b>	<b>1.7500e-003</b>	<b>0.0302</b>		<b>196.9422</b>	<b>196.9422</b>	<b>0.0133</b>		<b>197.2748</b>



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**3.3 Grading - 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					5.1464	0.0000	5.1464	2.6837	0.0000	2.6837			0.0000			0.0000
Off-Road	1.9167	18.8412	12.3776	0.0210		1.0194	1.0194		0.9537	0.9537		2,021.544 2	2,021.544 2	0.4997		2,034.036 0
<b>Total</b>	<b>1.9167</b>	<b>18.8412</b>	<b>12.3776</b>	<b>0.0210</b>	<b>5.1464</b>	<b>1.0194</b>	<b>6.1658</b>	<b>2.6837</b>	<b>0.9537</b>	<b>3.6374</b>		<b>2,021.544 2</b>	<b>2,021.544 2</b>	<b>0.4997</b>		<b>2,034.036 0</b>

**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	0.0416	0.0278	0.2673	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		79.1132	79.1132	2.3800e-003		79.1727
<b>Total</b>	<b>0.0416</b>	<b>0.0278</b>	<b>0.2673</b>	<b>7.9000e-004</b>	<b>0.0822</b>	<b>5.8000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.3000e-004</b>	<b>0.0223</b>		<b>79.1132</b>	<b>79.1132</b>	<b>2.3800e-003</b>		<b>79.1727</b>

Renewable Energy Facility - San Diego County APCD Air District, Winter

**3.3 Grading - 2020**

**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					2.3159	0.0000	2.3159	1.2077	0.0000	1.2077			0.0000			0.0000
Off-Road	0.4862	10.3690	13.0734	0.0210		0.5966	0.5966		0.5966	0.5966	0.0000	2,021.544 2	2,021.544 2	0.4997		2,034.036 0
<b>Total</b>	<b>0.4862</b>	<b>10.3690</b>	<b>13.0734</b>	<b>0.0210</b>	<b>2.3159</b>	<b>0.5966</b>	<b>2.9125</b>	<b>1.2077</b>	<b>0.5966</b>	<b>1.8043</b>	<b>0.0000</b>	<b>2,021.544 2</b>	<b>2,021.544 2</b>	<b>0.4997</b>		<b>2,034.036 0</b>

**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	0.0416	0.0278	0.2673	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		79.1132	79.1132	2.3800e-003		79.1727
<b>Total</b>	<b>0.0416</b>	<b>0.0278</b>	<b>0.2673</b>	<b>7.9000e-004</b>	<b>0.0822</b>	<b>5.8000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.3000e-004</b>	<b>0.0223</b>		<b>79.1132</b>	<b>79.1132</b>	<b>2.3800e-003</b>		<b>79.1727</b>

Renewable Energy Facility - San Diego County APCD Air District, Winter

**3.4 Building Construction - 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					
Off-Road	1.1604	12.1968	9.0353	0.0150		0.6818	0.6818		0.6273	0.6273		1,456.3883	1,456.3883	0.4710		1,468.1640
<b>Total</b>	<b>1.1604</b>	<b>12.1968</b>	<b>9.0353</b>	<b>0.0150</b>		<b>0.6818</b>	<b>0.6818</b>		<b>0.6273</b>	<b>0.6273</b>		<b>1,456.3883</b>	<b>1,456.3883</b>	<b>0.4710</b>		<b>1,468.1640</b>

**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	0.0157	0.4507	0.1275	1.0700e-003	0.0271	2.2500e-003	0.0293	7.8000e-003	2.1500e-003	9.9500e-003		114.5849	114.5849	9.2200e-003		114.8154
Worker	0.0333	0.0222	0.2138	6.4000e-004	0.0657	4.6000e-004	0.0662	0.0174	4.2000e-004	0.0179		63.2906	63.2906	1.9100e-003		63.3382
<b>Total</b>	<b>0.0489</b>	<b>0.4729</b>	<b>0.3413</b>	<b>1.7100e-003</b>	<b>0.0928</b>	<b>2.7100e-003</b>	<b>0.0955</b>	<b>0.0252</b>	<b>2.5700e-003</b>	<b>0.0278</b>		<b>177.8755</b>	<b>177.8755</b>	<b>0.0111</b>		<b>178.1536</b>

Renewable Energy Facility - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2020**

**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	0.3690	7.9303	10.0792	0.0150		0.4676	0.4676		0.4676	0.4676	0.0000	1,456.3883	1,456.3883	0.4710		1,468.1639
<b>Total</b>	<b>0.3690</b>	<b>7.9303</b>	<b>10.0792</b>	<b>0.0150</b>		<b>0.4676</b>	<b>0.4676</b>		<b>0.4676</b>	<b>0.4676</b>	<b>0.0000</b>	<b>1,456.3883</b>	<b>1,456.3883</b>	<b>0.4710</b>		<b>1,468.1639</b>

**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	0.0157	0.4507	0.1275	1.0700e-003	0.0271	2.2500e-003	0.0293	7.8000e-003	2.1500e-003	9.9500e-003		114.5849	114.5849	9.2200e-003		114.8154
Worker	0.0333	0.0222	0.2138	6.4000e-004	0.0657	4.6000e-004	0.0662	0.0174	4.2000e-004	0.0179		63.2906	63.2906	1.9100e-003		63.3382
<b>Total</b>	<b>0.0489</b>	<b>0.4729</b>	<b>0.3413</b>	<b>1.7100e-003</b>	<b>0.0928</b>	<b>2.7100e-003</b>	<b>0.0955</b>	<b>0.0252</b>	<b>2.5700e-003</b>	<b>0.0278</b>		<b>177.8755</b>	<b>177.8755</b>	<b>0.0111</b>		<b>178.1536</b>

Renewable Energy Facility - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0461	10.9992	8.8390	0.0150		0.5878	0.5878		0.5408	0.5408		1,456.6006	1,456.6006	0.4711		1,468.3779
<b>Total</b>	<b>1.0461</b>	<b>10.9992</b>	<b>8.8390</b>	<b>0.0150</b>		<b>0.5878</b>	<b>0.5878</b>		<b>0.5408</b>	<b>0.5408</b>		<b>1,456.6006</b>	<b>1,456.6006</b>	<b>0.4711</b>		<b>1,468.3779</b>

**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	0.0128	0.4062	0.1156	1.0600e-003	0.0271	8.9000e-004	0.0280	7.8000e-003	8.5000e-004	8.6500e-003		113.5277	113.5277	8.8400e-003		113.7488
Worker	0.0314	0.0202	0.1995	6.1000e-004	0.0657	4.5000e-004	0.0662	0.0174	4.2000e-004	0.0179		61.1638	61.1638	1.7600e-003		61.2077
<b>Total</b>	<b>0.0441</b>	<b>0.4264</b>	<b>0.3150</b>	<b>1.6700e-003</b>	<b>0.0928</b>	<b>1.3400e-003</b>	<b>0.0941</b>	<b>0.0252</b>	<b>1.2700e-003</b>	<b>0.0265</b>		<b>174.6915</b>	<b>174.6915</b>	<b>0.0106</b>		<b>174.9566</b>

Renewable Energy Facility - San Diego County APCD Air District, Winter

**3.4 Building Construction - 2021**

**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	0.3690	7.9303	10.0792	0.0150		0.4676	0.4676		0.4676	0.4676	0.0000	1,456.6006	1,456.6006	0.4711		1,468.3779
<b>Total</b>	<b>0.3690</b>	<b>7.9303</b>	<b>10.0792</b>	<b>0.0150</b>		<b>0.4676</b>	<b>0.4676</b>		<b>0.4676</b>	<b>0.4676</b>	<b>0.0000</b>	<b>1,456.6006</b>	<b>1,456.6006</b>	<b>0.4711</b>		<b>1,468.3779</b>

**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	0.0128	0.4062	0.1156	1.0600e-003	0.0271	8.9000e-004	0.0280	7.8000e-003	8.5000e-004	8.6500e-003		113.5277	113.5277	8.8400e-003		113.7488
Worker	0.0314	0.0202	0.1995	6.1000e-004	0.0657	4.5000e-004	0.0662	0.0174	4.2000e-004	0.0179		61.1638	61.1638	1.7600e-003		61.2077
<b>Total</b>	<b>0.0441</b>	<b>0.4264</b>	<b>0.3150</b>	<b>1.6700e-003</b>	<b>0.0928</b>	<b>1.3400e-003</b>	<b>0.0941</b>	<b>0.0252</b>	<b>1.2700e-003</b>	<b>0.0265</b>		<b>174.6915</b>	<b>174.6915</b>	<b>0.0106</b>		<b>174.9566</b>

Renewable Energy Facility - San Diego County APCD Air District, Winter

**3.5 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8580	7.8878	8.2789	0.0133		0.4121	0.4121		0.3837	0.3837		1,212.1151	1,212.1151	0.3477		1,220.8063
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8580</b>	<b>7.8878</b>	<b>8.2789</b>	<b>0.0133</b>		<b>0.4121</b>	<b>0.4121</b>		<b>0.3837</b>	<b>0.3837</b>		<b>1,212.1151</b>	<b>1,212.1151</b>	<b>0.3477</b>		<b>1,220.8063</b>

**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	0.0706	0.0454	0.4488	1.3800e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402		137.6186	137.6186	3.9500e-003		137.7174
<b>Total</b>	<b>0.0706</b>	<b>0.0454</b>	<b>0.4488</b>	<b>1.3800e-003</b>	<b>0.1479</b>	<b>1.0200e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.4000e-004</b>	<b>0.0402</b>		<b>137.6186</b>	<b>137.6186</b>	<b>3.9500e-003</b>		<b>137.7174</b>

Renewable Energy Facility - San Diego County APCD Air District, Winter

**3.5 Paving - 2021**

**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	0.2559	5.4376	7.8889	0.0133		0.3323	0.3323		0.3323	0.3323	0.0000	1,212.1151	1,212.1151	0.3477		1,220.8063
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.2559</b>	<b>5.4376</b>	<b>7.8889</b>	<b>0.0133</b>		<b>0.3323</b>	<b>0.3323</b>		<b>0.3323</b>	<b>0.3323</b>	<b>0.0000</b>	<b>1,212.1151</b>	<b>1,212.1151</b>	<b>0.3477</b>		<b>1,220.8063</b>

**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	0.0706	0.0454	0.4488	1.3800e-003	0.1479	1.0200e-003	0.1489	0.0392	9.4000e-004	0.0402		137.6186	137.6186	3.9500e-003		137.7174
<b>Total</b>	<b>0.0706</b>	<b>0.0454</b>	<b>0.4488</b>	<b>1.3800e-003</b>	<b>0.1479</b>	<b>1.0200e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.4000e-004</b>	<b>0.0402</b>		<b>137.6186</b>	<b>137.6186</b>	<b>3.9500e-003</b>		<b>137.7174</b>

**4.0 Operational Detail - Mobile**



Renewable Energy Facility - San Diego County APCD Air District, Winter

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
General Light Industry	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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.598645	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.023976	0.001926	0.001932	0.006016	0.000753	0.001122

Renewable Energy Facility - San Diego County APCD Air District, 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

Renewable Energy Facility - San Diego County APCD Air District, 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					
General Light Industry	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					
General Light Industry	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**

Renewable Energy Facility - San Diego County APCD Air District, Winter

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.3362	1.0000e-005	1.0100e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-003	2.0000e-003	0.0000		2.1100e-003
Unmitigated	0.3634	2.0000e-005	1.7400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.7200e-003	3.7200e-003	1.0000e-005		3.9600e-003

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6000e-004	2.0000e-005	1.7400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.7200e-003	3.7200e-003	1.0000e-005		3.9600e-003
<b>Total</b>	<b>0.3634</b>	<b>2.0000e-005</b>	<b>1.7400e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>1.0000e-005</b>		<b>3.9600e-003</b>

**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	0.3361					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.0000e-005	1.0000e-005	1.0100e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-003	2.0000e-003	0.0000		2.1100e-003
<b>Total</b>	<b>0.3362</b>	<b>1.0000e-005</b>	<b>1.0100e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>		<b>2.1100e-003</b>

**7.0 Water Detail**

Renewable Energy Facility - San Diego County APCD Air District, Winter

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**7.1 Mitigation Measures Water**

Use Reclaimed Water

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**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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Compressor Station Emergency Generator

Emergency Generator Emission Estimates

Operational Equipment - Project Name	OFFROAD Model Category	Engine Tier	Quantity	Engine Rating (hp)	Engine Rating (kW)	Load Factor	Operation (hr/day)	Operation (day/yr)	Emission Factors								Emissions										
									VOC	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	VOC	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2E
									(g/bhp-hr)								(lb/day)										
Emergency Generator	Generator Sets	4	1	3,353	2,500	0.74	1.0	50	0.1399	0.5	2.6	0.0055	0.02	0.02	568.299	0.018	0.008069	0.77	2.74	14.22	0.03	0.11	0.11	3,108.63	0.10	0.04	-
								(ton/year)								(MT/yr)											
								0.02	0.07	0.36	0.00	0.00	0.00	0.00	70.50	0.00	0.00	70.86									

Emission Factors

Equipment Type	VOC <sup>1</sup>	NOx <sup>1</sup>	CO <sup>2</sup>	SOx <sup>2</sup>	PM10 <sup>2</sup>	PM2.5 <sup>1</sup>	CO2 <sup>3</sup>	CH4 <sup>3</sup>	N2O <sup>4</sup>
Generator Sets	0.1399	0.5	2.6	0.0055	0.02	0.02	568.299	0.018	0.008069

Notes: <sup>1</sup> EPA Tier 4 for 1200+ hp engines

<sup>2</sup> EPA AP-42, Table 3.4-1, Calculated Value based on Ultra Low Sulfur Diesel

<sup>3</sup> Emission factors from CARB OFFROAD 2011, for generators over 1,000 hp

<sup>4</sup> N2O emission factor based on ratio of CH4 to N2O in diesel fuel from The Climate Registry's 2017 Default Emission Factors