Appendix E

Air Quality and Greenhouse Gas Emissions Calculations

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SCWR - Beltz 8 Construction

Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	0.40	1000sqft	0.01	396.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Beltz 8 Construction

Land Use - Surrogate land uses for pipeline and pavement

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 14 CY of material assumed to be exported and 0.01 acres total assumed to be disturbed

Architectural Coating - Default coating EF

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblGrading	AcresOfGrading	2.50	0.01
tblGrading	AcresOfGrading	2.50	0.00
tblGrading	MaterialExported	0.00	14.00
tblLandUse	LandUseSquareFeet	400.00	396.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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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		Injection line and conduit and storm drain connection
tblOffRoadEquipment	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	PhaseName		Tank foundation
tblOffRoadEquipment	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

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					
2022	0.0332	0.3119	0.3459	6.4000e-004	6.2400e-003	0.0148	0.0211	1.6400e-003	0.0141	0.0158	0.0000	56.1796	56.1796	0.0102	0.0000	56.4350
2023	2.1700e-003	0.0218	0.0260	4.0000e-005	1.5000e-004	1.0500e-003	1.2000e-003	4.0000e-005	9.6000e-004	1.0000e-003	0.0000	3.8142	3.8142	1.1700e-003	0.0000	3.8435
Maximum	**0.0332**	**0.3119**	**0.3459**	**6.4000e-004**	**6.2400e-003**	**0.0148**	**0.0211**	**1.6400e-003**	**0.0141**	**0.0158**	**0.0000**	**56.1796**	**56.1796**	**0.0102**	**0.0000**	**56.4350**

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					
2022	0.0332	0.3119	0.3459	6.4000e-004	6.2300e-003	0.0148	0.0211	1.6400e-003	0.0141	0.0158	0.0000	56.1796	56.1796	0.0102	0.0000	56.4349
2023	2.1700e-003	0.0218	0.0260	4.0000e-005	1.5000e-004	1.0500e-003	1.2000e-003	4.0000e-005	9.6000e-004	1.0000e-003	0.0000	3.8142	3.8142	1.1700e-003	0.0000	3.8434
Maximum	**0.0332**	**0.3119**	**0.3459**	**6.4000e-004**	**6.2300e-003**	**0.0148**	**0.0211**	**1.6400e-003**	**0.0141**	**0.0158**	**0.0000**	**56.1796**	**56.1796**	**0.0102**	**0.0000**	**56.4349**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.16**	**0.00**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**9-12-2022**	**12-11-2022**	0.2499	0.2499
2	**12-12-2022**	**3-11-2023**	0.0705	0.0705
		Highest	0.2499	0.2499

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	3.0000e-005	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

Total	**3.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**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**

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	3.0000e-005	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
Total	**3.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Mobilization	Site Preparation	9/12/2022	9/16/2022	5	5	
2	Injection line and conduit and storm drain connection	Trenching	9/19/2022	10/7/2022	5	15	
3	Tank foundation	Grading	10/10/2022	10/14/2022	5	5	
4	Tank construction	Building Construction	10/17/2022	11/25/2022	5	30	
5	Wellhead piping	Building Construction	11/28/2022	12/2/2022	5	5	

6	Building equipment upgrades	Building Construction	12/5/2022	12/23/2022	5	15
7	Facility startup and testing	Building Construction	12/26/2022	12/30/2022	5	5
8	Final paving and demobilization	Building Construction	1/2/2023	1/6/2023	5	5

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Injection line and conduit and storm drain connection	Concrete/Industrial Saws	1	8.00	81	0.73
Injection line and conduit and storm drain connection	Excavators	1	8.00	158	0.38
Injection line and conduit and storm drain connection	Forklifts	1	8.00	89	0.20
Injection line and conduit and storm drain connection	Pumps	1	8.00	84	0.74
Injection line and conduit and storm drain connection	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tank foundation	Concrete/Industrial Saws	0	0.00	81	0.73
Tank foundation	Graders	1	8.00	187	0.41
Tank foundation	Rubber Tired Dozers	0	0.00	247	0.40
Tank foundation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tank construction	Cranes	1	4.00	231	0.29
Tank construction	Forklifts	1	8.00	89	0.20
Tank construction	Generator Sets	1	8.00	84	0.74
Tank construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Wellhead piping	Cranes	1	4.00	231	0.29
Wellhead piping	Forklifts	1	8.00	89	0.20
Wellhead piping	Generator Sets	1	8.00	84	0.74
Wellhead piping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Building equipment upgrades	Cranes	0	0.00	231	0.29

Building equipment upgrades	Excavators	1	8.00	158	0.38
Building equipment upgrades	Forklifts	0	0.00	89	0.20
Building equipment upgrades	Pumps	1	8.00	84	0.74
Building equipment upgrades	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Facility startup and testing	Cranes	1	4.00	231	0.29
Facility startup and testing	Forklifts	1	8.00	89	0.20
Facility startup and testing	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Final paving and demobilization	Cranes	1	4.00	231	0.29
Final paving and demobilization	Forklifts	1	8.00	89	0.20
Final paving and demobilization	Pavers	1	4.00	130	0.42
Final paving and demobilization	Paving Equipment	1	4.00	132	0.36
Final paving and demobilization	Rollers	1	4.00	80	0.38
Final paving and demobilization	Tractors/Loaders/Backhoes	2	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
Mobilization	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Injection line and conduit and storm drain	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Tank foundation	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Tank construction	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Tank construction	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead piping	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building equipment upgrades	4	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Final paving and demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Mobilization - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	0.0173	9.9000e-003	2.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.1376	2.1376	6.9000e-004	0.0000	2.1549
Total	**1.4500e-003**	**0.0173**	**9.9000e-003**	**2.0000e-005**	**0.0000**	**6.4000e-004**	**6.4000e-004**	**0.0000**	**5.9000e-004**	**5.9000e-004**	**0.0000**	**2.1376**	**2.1376**	**6.9000e-004**	**0.0000**	**2.1549**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4500e-003	0.0173	9.9000e-003	2.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.1376	2.1376	6.9000e-004	0.0000	2.1549
Total	**1.4500e-003**	**0.0173**	**9.9000e-003**	**2.0000e-005**	**0.0000**	**6.4000e-004**	**6.4000e-004**	**0.0000**	**5.9000e-004**	**5.9000e-004**	**0.0000**	**2.1376**	**2.1376**	**6.9000e-004**	**0.0000**	**2.1549**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

3.3 Injection line and conduit and storm drain connection -

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.9300e-003	0.0771	0.1053	1.7000e-004		4.1400e-003	4.1400e-003		3.9900e-003	3.9900e-003	0.0000	14.7303	14.7303	2.5300e-003	0.0000	14.7934
Total	**8.9300e-003**	**0.0771**	**0.1053**	**1.7000e-004**		**4.1400e-003**	**4.1400e-003**		**3.9900e-003**	**3.9900e-003**	**0.0000**	**14.7303**	**14.7303**	**2.5300e-003**	**0.0000**	**14.7934**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.9000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0768	0.0768	0.0000	0.0000	0.0769
Vendor	1.0000e-004	3.4800e-003	9.0000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7701	0.7701	3.0000e-005	0.0000	0.7709
Worker	2.4000e-004	2.0000e-004	1.8400e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4113	0.4113	2.0000e-005	0.0000	0.4116
Total	**3.5000e-004**	**3.9700e-003**	**2.8100e-003**	**1.0000e-005**	**6.9000e-004**	**1.0000e-005**	**7.1000e-004**	**1.9000e-004**	**1.0000e-005**	**2.1000e-004**	**0.0000**	**1.2582**	**1.2582**	**5.0000e-005**	**0.0000**	**1.2594**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.9300e-003	0.0771	0.1053	1.7000e-004		4.1400e-003	4.1400e-003		3.9900e-003	3.9900e-003	0.0000	14.7303	14.7303	2.5300e-003	0.0000	14.7934
Total	**8.9300e-003**	**0.0771**	**0.1053**	**1.7000e-004**		**4.1400e-003**	**4.1400e-003**		**3.9900e-003**	**3.9900e-003**	**0.0000**	**14.7303**	**14.7303**	**2.5300e-003**	**0.0000**	**14.7934**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.9000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0768	0.0768	0.0000	0.0000	0.0769
Vendor	1.0000e-004	3.4800e-003	9.0000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7701	0.7701	3.0000e-005	0.0000	0.7709
Worker	2.4000e-004	2.0000e-004	1.8400e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4113	0.4113	2.0000e-005	0.0000	0.4116
Total	**3.5000e-004**	**3.9700e-003**	**2.8100e-003**	**1.0000e-005**	**6.9000e-004**	**1.0000e-005**	**7.1000e-004**	**1.9000e-004**	**1.0000e-005**	**2.1000e-004**	**0.0000**	**1.2582**	**1.2582**	**5.0000e-005**	**0.0000**	**1.2594**

3.4 Tank foundation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	0.0173	9.9000e-003	2.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.1376	2.1376	6.9000e-004	0.0000	2.1549
Total	**1.4500e-003**	**0.0173**	**9.9000e-003**	**2.0000e-005**	**1.0000e-005**	**6.4000e-004**	**6.5000e-004**	**0.0000**	**5.9000e-004**	**5.9000e-004**	**0.0000**	**2.1376**	**2.1376**	**6.9000e-004**	**0.0000**	**2.1549**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4500e-003	0.0173	9.9000e-003	2.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.1376	2.1376	6.9000e-004	0.0000	2.1549
Total	**1.4500e-003**	**0.0173**	**9.9000e-003**	**2.0000e-005**	**0.0000**	**6.4000e-004**	**6.4000e-004**	**0.0000**	**5.9000e-004**	**5.9000e-004**	**0.0000**	**2.1376**	**2.1376**	**6.9000e-004**	**0.0000**	**2.1549**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

3.5 Tank 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	9.4500e-003	0.0911	0.0866	1.6000e-004		4.5500e-003	4.5500e-003		4.3700e-003	4.3700e-003	0.0000	14.2947	14.2947	2.2800e-003	0.0000	14.3518
Total	**9.4500e-003**	**0.0911**	**0.0866**	**1.6000e-004**		**4.5500e-003**	**4.5500e-003**		**4.3700e-003**	**4.3700e-003**	**0.0000**	**14.2947**	**14.2947**	**2.2800e-003**	**0.0000**	**14.3518**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-004	6.9500e-003	1.7900e-003	2.0000e-005	6.7000e-004	2.0000e-005	6.9000e-004	1.8000e-004	2.0000e-005	2.0000e-004	0.0000	1.5402	1.5402	6.0000e-005	0.0000	1.5417
Worker	9.4000e-004	8.0000e-004	7.3500e-003	2.0000e-005	3.5400e-003	2.0000e-005	3.5600e-003	9.1000e-004	1.0000e-005	9.2000e-004	0.0000	1.6451	1.6451	6.0000e-005	0.0000	1.6466
Total	**1.1400e-003**	**7.7500e-003**	**9.1400e-003**	**4.0000e-005**	**4.2100e-003**	**4.0000e-005**	**4.2500e-003**	**1.0900e-003**	**3.0000e-005**	**1.1200e-003**	**0.0000**	**3.1853**	**3.1853**	**1.2000e-004**	**0.0000**	**3.1883**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.4500e-003	0.0911	0.0866	1.6000e-004		4.5500e-003	4.5500e-003		4.3700e-003	4.3700e-003	0.0000	14.2947	14.2947	2.2800e-003	0.0000	14.3518
Total	**9.4500e-003**	**0.0911**	**0.0866**	**1.6000e-004**		**4.5500e-003**	**4.5500e-003**		**4.3700e-003**	**4.3700e-003**	**0.0000**	**14.2947**	**14.2947**	**2.2800e-003**	**0.0000**	**14.3518**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-004	6.9500e-003	1.7900e-003	2.0000e-005	6.7000e-004	2.0000e-005	6.9000e-004	1.8000e-004	2.0000e-005	2.0000e-004	0.0000	1.5402	1.5402	6.0000e-005	0.0000	1.5417
Worker	9.4000e-004	8.0000e-004	7.3500e-003	2.0000e-005	3.5400e-003	2.0000e-005	3.5600e-003	9.1000e-004	1.0000e-005	9.2000e-004	0.0000	1.6451	1.6451	6.0000e-005	0.0000	1.6466
Total	**1.1400e-003**	**7.7500e-003**	**9.1400e-003**	**4.0000e-005**	**4.2100e-003**	**4.0000e-005**	**4.2500e-003**	**1.0900e-003**	**3.0000e-005**	**1.1200e-003**	**0.0000**	**3.1853**	**3.1853**	**1.2000e-004**	**0.0000**	**3.1883**

3.6 Wellhead piping - 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	1.5800e-003	0.0152	0.0144	3.0000e-005		7.6000e-004	7.6000e-004		7.3000e-004	7.3000e-004	0.0000	2.3825	2.3825	3.8000e-004	0.0000	2.3920
Total	**1.5800e-003**	**0.0152**	**0.0144**	**3.0000e-005**		**7.6000e-004**	**7.6000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**2.3825**	**2.3825**	**3.8000e-004**	**0.0000**	**2.3920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5800e-003	0.0152	0.0144	3.0000e-005		7.6000e-004	7.6000e-004		7.3000e-004	7.3000e-004	0.0000	2.3825	2.3825	3.8000e-004	0.0000	2.3920
Total	**1.5800e-003**	**0.0152**	**0.0144**	**3.0000e-005**		**7.6000e-004**	**7.6000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**2.3825**	**2.3825**	**3.8000e-004**	**0.0000**	**2.3920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372

Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

3.7 Building equipment upgrades - 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	6.6300e-003	0.0607	0.0860	1.3000e-004		3.1600e-003	3.1600e-003		3.0000e-003	3.0000e-003	0.0000	11.7403	11.7403	2.6400e-003	0.0000	11.8064
Total	**6.6300e-003**	**0.0607**	**0.0860**	**1.3000e-004**		**3.1600e-003**	**3.1600e-003**		**3.0000e-003**	**3.0000e-003**	**0.0000**	**11.7403**	**11.7403**	**2.6400e-003**	**0.0000**	**11.8064**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	5.9000e-004	1.4000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1536	0.1536	1.0000e-005	0.0000	0.1537
Vendor	5.0000e-005	1.7400e-003	4.5000e-004	0.0000	1.0000e-004	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3851	0.3851	1.0000e-005	0.0000	0.3854
Worker	2.4000e-004	2.0000e-004	1.8400e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4113	0.4113	2.0000e-005	0.0000	0.4116
Total	**3.0000e-004**	**2.5300e-003**	**2.4300e-003**	**0.0000**	**6.0000e-004**	**1.0000e-005**	**6.2000e-004**	**1.7000e-004**	**1.0000e-005**	**1.7000e-004**	**0.0000**	**0.9499**	**0.9499**	**4.0000e-005**	**0.0000**	**0.9508**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.6300e-003	0.0607	0.0860	1.3000e-004		3.1600e-003	3.1600e-003		3.0000e-003	3.0000e-003	0.0000	11.7403	11.7403	2.6400e-003	0.0000	11.8063
Total	**6.6300e-003**	**0.0607**	**0.0860**	**1.3000e-004**		**3.1600e-003**	**3.1600e-003**		**3.0000e-003**	**3.0000e-003**	**0.0000**	**11.7403**	**11.7403**	**2.6400e-003**	**0.0000**	**11.8063**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	5.9000e-004	1.4000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1536	0.1536	1.0000e-005	0.0000	0.1537
Vendor	5.0000e-005	1.7400e-003	4.5000e-004	0.0000	1.0000e-004	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3851	0.3851	1.0000e-005	0.0000	0.3854
Worker	2.4000e-004	2.0000e-004	1.8400e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4113	0.4113	2.0000e-005	0.0000	0.4116
Total	**3.0000e-004**	**2.5300e-003**	**2.4300e-003**	**0.0000**	**6.0000e-004**	**1.0000e-005**	**6.2000e-004**	**1.7000e-004**	**1.0000e-005**	**1.7000e-004**	**0.0000**	**0.9499**	**0.9499**	**4.0000e-005**	**0.0000**	**0.9508**

3.8 Facility startup and testing - 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	1.5700e-003	0.0163	0.0164	3.0000e-005		8.4000e-004	8.4000e-004		7.8000e-004	7.8000e-004	0.0000	2.3358	2.3358	7.6000e-004	0.0000	2.3547
Total	**1.5700e-003**	**0.0163**	**0.0164**	**3.0000e-005**		**8.4000e-004**	**8.4000e-004**		**7.8000e-004**	**7.8000e-004**	**0.0000**	**2.3358**	**2.3358**	**7.6000e-004**	**0.0000**	**2.3547**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1028	0.1028	0.0000	0.0000	0.1029
Total	**8.0000e-005**	**6.3000e-004**	**6.1000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2312**	**0.2312**	**0.0000**	**0.0000**	**0.2314**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5700e-003	0.0163	0.0164	3.0000e-005		8.4000e-004	8.4000e-004		7.8000e-004	7.8000e-004	0.0000	2.3358	2.3358	7.6000e-004	0.0000	2.3547
Total	**1.5700e-003**	**0.0163**	**0.0164**	**3.0000e-005**		**8.4000e-004**	**8.4000e-004**		**7.8000e-004**	**7.8000e-004**	**0.0000**	**2.3358**	**2.3358**	**7.6000e-004**	**0.0000**	**2.3547**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1028	0.1028	0.0000	0.0000	0.1029
Total	**8.0000e-005**	**6.3000e-004**	**6.1000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2312**	**0.2312**	**0.0000**	**0.0000**	**0.2314**

3.9 Final paving and demobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1000e-003	0.0212	0.0254	4.0000e-005		1.0500e-003	1.0500e-003		9.6000e-004	9.6000e-004	0.0000	3.5890	3.5890	1.1600e-003	0.0000	3.6180
Total	**2.1000e-003**	**0.0212**	**0.0254**	**4.0000e-005**		**1.0500e-003**	**1.0500e-003**		**9.6000e-004**	**9.6000e-004**	**0.0000**	**3.5890**	**3.5890**	**1.1600e-003**	**0.0000**	**3.6180**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263

Worker	5.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0991	0.0991	0.0000	0.0000	0.0991
Total	**6.0000e-005**	**5.3000e-004**	**5.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2252**	**0.2252**	**0.0000**	**0.0000**	**0.2254**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1000e-003	0.0212	0.0254	4.0000e-005		1.0500e-003	1.0500e-003		9.6000e-004	9.6000e-004	0.0000	3.5890	3.5890	1.1600e-003	0.0000	3.6180
Total	**2.1000e-003**	**0.0212**	**0.0254**	**4.0000e-005**		**1.0500e-003**	**1.0500e-003**		**9.6000e-004**	**9.6000e-004**	**0.0000**	**3.5890**	**3.5890**	**1.1600e-003**	**0.0000**	**3.6180**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	5.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0991	0.0991	0.0000	0.0000	0.0991
Total	**6.0000e-005**	**5.3000e-004**	**5.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2252**	**0.2252**	**0.0000**	**0.0000**	**0.2254**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981
Other Asphalt Surfaces	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0000e-005	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	3.0000e-005	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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0000e-005					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
Total	**4.0000e-005**	**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**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0000e-005					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
Total	**4.0000e-005**	**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**

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

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
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

Mitigated	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Beltz 8 Construction

Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	0.40	1000sqft	0.01	396.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Beltz 8 Construction

Land Use - Surrogate land uses for pipeline and pavement

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 14 CY of material assumed to be exported and 0.01 acres total assumed to be disturbed

Architectural Coating - Default coating EF

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblGrading	AcresOfGrading	2.50	0.01
tblGrading	AcresOfGrading	2.50	0.00
tblGrading	MaterialExported	0.00	14.00
tblLandUse	LandUseSquareFeet	400.00	396.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	PhaseName		Tank foundation
tblOffRoadEquipment	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

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					
2022	1.2350	10.7977	14.4179	0.0245	0.2919	0.5538	0.6488	0.0754	0.5340	0.5598	0.0000	2,353.9335	2,353.9335	0.3937	0.0000	2,363.3874
2023	0.8659	8.6957	10.3953	0.0173	0.0628	0.4189	0.4817	0.0170	0.3854	0.4024	0.0000	1,684.4211	1,684.4211	0.5153	0.0000	1,697.3034
Maximum	**1.2350**	**10.7977**	**14.4179**	**0.0245**	**0.2919**	**0.5538**	**0.6488**	**0.0754**	**0.5340**	**0.5598**	**0.0000**	**2,353.9335**	**2,353.9335**	**0.5153**	**0.0000**	**2,363.3874**

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					
2022	1.2350	10.7977	14.4179	0.0245	0.2919	0.5538	0.6488	0.0754	0.5340	0.5598	0.0000	2,353.9335	2,353.9335	0.3937	0.0000	2,363.3874
2023	0.8659	8.6957	10.3953	0.0173	0.0628	0.4189	0.4817	0.0170	0.3854	0.4024	0.0000	1,684.4211	1,684.4211	0.5153	0.0000	1,697.3034
Maximum	**1.2350**	**10.7977**	**14.4179**	**0.0245**	**0.2919**	**0.5538**	**0.6488**	**0.0754**	**0.5340**	**0.5598**	**0.0000**	**2,353.9335**	**2,353.9335**	**0.5153**	**0.0000**	**2,363.3874**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	1.9000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		9.0000e-005	9.0000e-005	0.0000		9.0000e-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
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
Total	**1.9000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**0.0000**	**9.0000e-005**

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	1.9000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		9.0000e-005	9.0000e-005	0.0000		9.0000e-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
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
Total	**1.9000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**0.0000**	**9.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Mobilization	Site Preparation	9/12/2022	9/16/2022	5	5	
2	Injection line and conduit and storm drain connection	Trenching	9/19/2022	10/7/2022	5	15	
3	Tank foundation	Grading	10/10/2022	10/14/2022	5	5	
4	Tank construction	Building Construction	10/17/2022	11/25/2022	5	30	
5	Wellhead piping	Building Construction	11/28/2022	12/2/2022	5	5	
6	Building equipment upgrades	Building Construction	12/5/2022	12/23/2022	5	15	
7	Facility startup and testing	Building Construction	12/26/2022	12/30/2022	5	5	
8	Final paving and demobilization	Building Construction	1/2/2023	1/6/2023	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Injection line and conduit and storm drain connection	Concrete/Industrial Saws	1	8.00	81	0.73
Injection line and conduit and storm drain connection	Excavators	1	8.00	158	0.38
Injection line and conduit and storm drain connection	Forklifts	1	8.00	89	0.20
Injection line and conduit and storm drain connection	Pumps	1	8.00	84	0.74
Injection line and conduit and storm drain connection	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tank foundation	Concrete/Industrial Saws	0	0.00	81	0.73
Tank foundation	Graders	1	8.00	187	0.41
Tank foundation	Rubber Tired Dozers	0	0.00	247	0.40
Tank foundation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tank construction	Cranes	1	4.00	231	0.29
Tank construction	Forklifts	1	8.00	89	0.20
Tank construction	Generator Sets	1	8.00	84	0.74
Tank construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Wellhead piping	Cranes	1	4.00	231	0.29
Wellhead piping	Forklifts	1	8.00	89	0.20
Wellhead piping	Generator Sets	1	8.00	84	0.74
Wellhead piping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Building equipment upgrades	Cranes	0	0.00	231	0.29
Building equipment upgrades	Excavators	1	8.00	158	0.38
Building equipment upgrades	Forklifts	0	0.00	89	0.20
Building equipment upgrades	Pumps	1	8.00	84	0.74
Building equipment upgrades	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Facility startup and testing	Cranes	1	4.00	231	0.29
Facility startup and testing	Forklifts	1	8.00	89	0.20
Facility startup and testing	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Final paving and demobilization	Cranes	1	4.00	231	0.29
Final paving and demobilization	Forklifts	1	8.00	89	0.20

Final paving and demobilization	Pavers	1	4.00	130	0.42
Final paving and demobilization	Paving Equipment	1	4.00	132	0.36
Final paving and demobilization	Rollers	1	4.00	80	0.38
Final paving and demobilization	Tractors/Loaders/Backhoes	2	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
Mobilization	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Injection line and conduit and storm drain	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Tank foundation	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Tank construction	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Tank construction	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead piping	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building equipment upgrades	4	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Final paving and demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Mobilization - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386

Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**0.0000**	**0.2573**	**0.2573**	**0.0000**	**0.2367**	**0.2367**		**942.5179**	**942.5179**	**0.3048**		**950.1386**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**0.0000**	**0.2573**	**0.2573**	**0.0000**	**0.2367**	**0.2367**	**0.0000**	**942.5179**	**942.5179**	**0.3048**		**950.1386**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

3.3 Injection line and conduit and storm drain connection -

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1904	10.2775	14.0433	0.0226		0.5518	0.5518		0.5321	0.5321		2,164.9843	2,164.9843	0.3711		2,174.2628
Total	**1.1904**	**10.2775**	**14.0433**	**0.0226**		**0.5518**	**0.5518**		**0.5321**	**0.5321**		**2,164.9843**	**2,164.9843**	**0.3711**		**2,174.2628**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5000e-004	0.0383	8.8200e-003	1.1000e-004	2.3100e-003	1.4000e-004	2.4500e-003	6.3000e-004	1.4000e-004	7.7000e-004		11.3509	11.3509	4.5000e-004		11.3622
Vendor	0.0127	0.4585	0.1125	1.0800e-003	0.0270	1.3700e-003	0.0283	7.7500e-003	1.3100e-003	9.0600e-003		114.2117	114.2117	4.2600e-003		114.3183

Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0446**	**0.5202**	**0.3746**	**1.8300e-003**	**0.0950**	**2.0300e-003**	**0.0970**	**0.0258**	**1.9300e-003**	**0.0277**		**188.9492**	**188.9492**	**7.0100e-003**		**189.1246**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1904	10.2775	14.0433	0.0226		0.5518	0.5518		0.5321	0.5321	0.0000	2,164.9843	2,164.9843	0.3711		2,174.2628
Total	**1.1904**	**10.2775**	**14.0433**	**0.0226**		**0.5518**	**0.5518**		**0.5321**	**0.5321**	**0.0000**	**2,164.9843**	**2,164.9843**	**0.3711**		**2,174.2628**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5000e-004	0.0383	8.8200e-003	1.1000e-004	2.3100e-003	1.4000e-004	2.4500e-003	6.3000e-004	1.4000e-004	7.7000e-004		11.3509	11.3509	4.5000e-004		11.3622
Vendor	0.0127	0.4585	0.1125	1.0800e-003	0.0270	1.3700e-003	0.0283	7.7500e-003	1.3100e-003	9.0600e-003		114.2117	114.2117	4.2600e-003		114.3183
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0446**	**0.5202**	**0.3746**	**1.8300e-003**	**0.0950**	**2.0300e-003**	**0.0970**	**0.0258**	**1.9300e-003**	**0.0277**		**188.9492**	**188.9492**	**7.0100e-003**		**189.1246**

3.4 Tank foundation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3600e-003	0.0000	2.3600e-003	2.7000e-004	0.0000	2.7000e-004			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**2.3600e-003**	**0.2573**	**0.2597**	**2.7000e-004**	**0.2367**	**0.2370**		**942.5179**	**942.5179**	**0.3048**		**950.1386**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0600e-003	0.0000	1.0600e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000

Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**1.0600e-003**	**0.2573**	**0.2584**	**1.2000e-004**	**0.2367**	**0.2369**	**0.0000**	**942.5179**	**942.5179**	**0.3048**		**950.1386**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

3.5 Tank construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911		1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**		**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0127	0.4585	0.1125	1.0800e-003	0.0463	1.3700e-003	0.0476	0.0125	1.3100e-003	0.0138		114.2117	114.2117	4.2600e-003		114.3183
Worker	0.0619	0.0467	0.5065	1.2700e-003	0.2457	1.0400e-003	0.2467	0.0629	9.6000e-004	0.0639		126.7732	126.7732	4.6000e-003		126.8882
Total	**0.0746**	**0.5052**	**0.6190**	**2.3500e-003**	**0.2919**	**2.4100e-003**	**0.2943**	**0.0754**	**2.2700e-003**	**0.0777**		**240.9849**	**240.9849**	**8.8600e-003**		**241.2065**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911	0.0000	1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**	**0.0000**	**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Mitigated Construction Off-Site

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

Vendor	0.0127	0.4585	0.1125	1.0800e-003	0.0463	1.3700e-003	0.0476	0.0125	1.3100e-003	0.0138		114.2117	114.2117	4.2600e-003		114.3183
Worker	0.0619	0.0467	0.5065	1.2700e-003	0.2457	1.0400e-003	0.2467	0.0629	9.6000e-004	0.0639		126.7732	126.7732	4.6000e-003		126.8882
Total	**0.0746**	**0.5052**	**0.6190**	**2.3500e-003**	**0.2919**	**2.4100e-003**	**0.2943**	**0.0754**	**2.2700e-003**	**0.0777**		**240.9849**	**240.9849**	**8.8600e-003**		**241.2065**

3.6 Wellhead piping - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911		1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**		**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911	0.0000	1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**	**0.0000**	**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

3.7 Building equipment upgrades - 2022

Unmitigated Construction On-Site

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

Off-Road	0.8838	8.0971	11.4629	0.0180		0.4218	0.4218		0.4005	0.4005		1,725.5277	1,725.5277	0.3884		1,735.2368
Total	**0.8838**	**8.0971**	**11.4629**	**0.0180**		**0.4218**	**0.4218**		**0.4005**	**0.4005**		**1,725.5277**	**1,725.5277**	**0.3884**		**1,735.2368**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8900e-003	0.0767	0.0176	2.1000e-004	4.6200e-003	2.9000e-004	4.9100e-003	1.2600e-003	2.8000e-004	1.5400e-003		22.7019	22.7019	9.0000e-004		22.7244
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0392**	**0.3293**	**0.3271**	**1.3900e-003**	**0.0838**	**1.4900e-003**	**0.0853**	**0.0226**	**1.4100e-003**	**0.0240**		**143.1943**	**143.1943**	**5.3300e-003**		**143.3277**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8838	8.0971	11.4629	0.0180		0.4218	0.4218		0.4005	0.4005	0.0000	1,725.5277	1,725.5277	0.3884		1,735.2368
Total	**0.8838**	**8.0971**	**11.4629**	**0.0180**		**0.4218**	**0.4218**		**0.4005**	**0.4005**	**0.0000**	**1,725.5277**	**1,725.5277**	**0.3884**		**1,735.2368**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8900e-003	0.0767	0.0176	2.1000e-004	4.6200e-003	2.9000e-004	4.9100e-003	1.2600e-003	2.8000e-004	1.5400e-003		22.7019	22.7019	9.0000e-004		22.7244
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0392**	**0.3293**	**0.3271**	**1.3900e-003**	**0.0838**	**1.4900e-003**	**0.0853**	**0.0226**	**1.4100e-003**	**0.0240**		**143.1943**	**143.1943**	**5.3300e-003**		**143.3277**

3.8 Facility startup and testing - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6295	6.4983	6.5758	0.0106		0.3370	0.3370		0.3100	0.3100		1,029.9239	1,029.9239	0.3331		1,038.2514
Total	**0.6295**	**6.4983**	**6.5758**	**0.0106**		**0.3370**	**0.3370**		**0.3100**	**0.3100**		**1,029.9239**	**1,029.9239**	**0.3331**		**1,038.2514**

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0232	0.0175	0.1899	4.8000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.5400	47.5400	1.7300e-003		47.5831
Total	**0.0296**	**0.2468**	**0.2462**	**1.0200e-003**	**0.0628**	**1.0700e-003**	**0.0639**	**0.0170**	**1.0100e-003**	**0.0180**		**104.6458**	**104.6458**	**3.8600e-003**		**104.7422**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6295	6.4983	6.5758	0.0106		0.3370	0.3370		0.3100	0.3100	0.0000	1,029.9239	1,029.9239	0.3331		1,038.2514
Total	**0.6295**	**6.4983**	**6.5758**	**0.0106**		**0.3370**	**0.3370**		**0.3100**	**0.3100**	**0.0000**	**1,029.9239**	**1,029.9239**	**0.3331**		**1,038.2514**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0232	0.0175	0.1899	4.8000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.5400	47.5400	1.7300e-003		47.5831
Total	**0.0296**	**0.2468**	**0.2462**	**1.0200e-003**	**0.0628**	**1.0700e-003**	**0.0639**	**0.0170**	**1.0100e-003**	**0.0180**		**104.6458**	**104.6458**	**3.8600e-003**		**104.7422**

3.9 Final paving and demobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8392	8.4867	10.1707	0.0163		0.4182	0.4182		0.3847	0.3847		1,582.4895	1,582.4895	0.5118		1,595.2847
Total	**0.8392**	**8.4867**	**10.1707**	**0.0163**		**0.4182**	**0.4182**		**0.3847**	**0.3847**		**1,582.4895**	**1,582.4895**	**0.5118**		**1,595.2847**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0217	0.0157	0.1740	4.6000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		45.8018	45.8018	1.5500e-003		45.8404
Total	**0.0267**	**0.2090**	**0.2246**	**9.9000e-004**	**0.0628**	**7.7000e-004**	**0.0635**	**0.0170**	**7.2000e-004**	**0.0177**		**101.9316**	**101.9316**	**3.4900e-003**		**102.0187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8392	8.4867	10.1707	0.0163		0.4182	0.4182		0.3847	0.3847	0.0000	1,582.4895	1,582.4895	0.5118		1,595.2847
Total	**0.8392**	**8.4867**	**10.1707**	**0.0163**		**0.4182**	**0.4182**		**0.3847**	**0.3847**	**0.0000**	**1,582.4895**	**1,582.4895**	**0.5118**		**1,595.2847**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0217	0.0157	0.1740	4.6000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		45.8018	45.8018	1.5500e-003		45.8404
Total	**0.0267**	**0.2090**	**0.2246**	**9.9000e-004**	**0.0628**	**7.7000e-004**	**0.0635**	**0.0170**	**7.2000e-004**	**0.0177**		**101.9316**	**101.9316**	**3.4900e-003**		**102.0187**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981
Other Asphalt Surfaces	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		9.0000e-005	9.0000e-005	0.0000		9.0000e-005
Unmitigated	1.9000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		9.0000e-005	9.0000e-005	0.0000		9.0000e-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	lb/day										lb/day					
Architectural Coating	5.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		9.0000e-005	9.0000e-005	0.0000		9.0000e-005
Total	**1.9000e-004**	**0.0000**	**4.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**9.0000e-005**	**9.0000e-005**	**0.0000**		**9.0000e-005**

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	5.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		9.0000e-005	9.0000e-005	0.0000		9.0000e-005
Total	**1.9000e-004**	**0.0000**	**4.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**9.0000e-005**	**9.0000e-005**	**0.0000**		**9.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Beltz 8 Construction

Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	0.40	1000sqft	0.01	396.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Beltz 8 Construction

Land Use - Surrogate land uses for pipeline and pavement

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 14 CY of material assumed to be exported and 0.01 acres total assumed to be disturbed

Architectural Coating - Default coating EF

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblGrading	AcresOfGrading	2.50	0.01
tblGrading	AcresOfGrading	2.50	0.00
tblGrading	MaterialExported	0.00	14.00
tblLandUse	LandUseSquareFeet	400.00	396.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	PhaseName		Tank foundation
tblOffRoadEquipment	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	PhaseName		Injection line and conduit and storm drain connection
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

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					
2022	1.2396	10.8074	14.4362	0.0244	0.2919	0.5539	0.6489	0.0754	0.5341	0.5599	0.0000	2,348.3516	2,348.3516	0.3938	0.0000	2,357.8115
2023	0.8689	8.7005	10.4030	0.0173	0.0628	0.4189	0.4817	0.0170	0.3854	0.4024	0.0000	1,681.0518	1,681.0518	0.5154	0.0000	1,693.9360
Maximum	**1.2396**	**10.8074**	**14.4362**	**0.0244**	**0.2919**	**0.5539**	**0.6489**	**0.0754**	**0.5341**	**0.5599**	**0.0000**	**2,348.3516**	**2,348.3516**	**0.5154**	**0.0000**	**2,357.8115**

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					
2022	1.2396	10.8074	14.4362	0.0244	0.2919	0.5539	0.6489	0.0754	0.5341	0.5599	0.0000	2,348.3516	2,348.3516	0.3938	0.0000	2,357.8115
2023	0.8689	8.7005	10.4030	0.0173	0.0628	0.4189	0.4817	0.0170	0.3854	0.4024	0.0000	1,681.0518	1,681.0518	0.5154	0.0000	1,693.9360
Maximum	**1.2396**	**10.8074**	**14.4362**	**0.0244**	**0.2919**	**0.5539**	**0.6489**	**0.0754**	**0.5341**	**0.5599**	**0.0000**	**2,348.3516**	**2,348.3516**	**0.5154**	**0.0000**	**2,357.8115**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	1.9000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		9.0000e-005	9.0000e-005	0.0000		9.0000e-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
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
Total	**1.9000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**0.0000**	**9.0000e-005**

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	1.9000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		9.0000e-005	9.0000e-005	0.0000		9.0000e-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
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
Total	**1.9000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**0.0000**	**9.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Mobilization	Site Preparation	9/12/2022	9/16/2022	5	5	
2	Injection line and conduit and storm drain connection	Trenching	9/19/2022	10/7/2022	5	15	
3	Tank foundation	Grading	10/10/2022	10/14/2022	5	5	
4	Tank construction	Building Construction	10/17/2022	11/25/2022	5	30	
5	Wellhead piping	Building Construction	11/28/2022	12/2/2022	5	5	
6	Building equipment upgrades	Building Construction	12/5/2022	12/23/2022	5	15	
7	Facility startup and testing	Building Construction	12/26/2022	12/30/2022	5	5	
8	Final paving and demobilization	Building Construction	1/2/2023	1/6/2023	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Injection line and conduit and storm drain connection	Concrete/Industrial Saws	1	8.00	81	0.73
Injection line and conduit and storm drain connection	Excavators	1	8.00	158	0.38
Injection line and conduit and storm drain connection	Forklifts	1	8.00	89	0.20
Injection line and conduit and storm drain connection	Pumps	1	8.00	84	0.74
Injection line and conduit and storm drain connection	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tank foundation	Concrete/Industrial Saws	0	0.00	81	0.73
Tank foundation	Graders	1	8.00	187	0.41
Tank foundation	Rubber Tired Dozers	0	0.00	247	0.40
Tank foundation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Tank construction	Cranes	1	4.00	231	0.29
Tank construction	Forklifts	1	8.00	89	0.20
Tank construction	Generator Sets	1	8.00	84	0.74
Tank construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Wellhead piping	Cranes	1	4.00	231	0.29
Wellhead piping	Forklifts	1	8.00	89	0.20
Wellhead piping	Generator Sets	1	8.00	84	0.74
Wellhead piping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Building equipment upgrades	Cranes	0	0.00	231	0.29
Building equipment upgrades	Excavators	1	8.00	158	0.38
Building equipment upgrades	Forklifts	0	0.00	89	0.20
Building equipment upgrades	Pumps	1	8.00	84	0.74
Building equipment upgrades	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Facility startup and testing	Cranes	1	4.00	231	0.29
Facility startup and testing	Forklifts	1	8.00	89	0.20
Facility startup and testing	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Final paving and demobilization	Cranes	1	4.00	231	0.29
Final paving and demobilization	Forklifts	1	8.00	89	0.20

Final paving and demobilization	Pavers	1	4.00	130	0.42
Final paving and demobilization	Paving Equipment	1	4.00	132	0.36
Final paving and demobilization	Rollers	1	4.00	80	0.38
Final paving and demobilization	Tractors/Loaders/Backhoes	2	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
Mobilization	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Injection line and conduit and storm drain	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Tank foundation	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Tank construction	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Tank construction	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead piping	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building equipment upgrades	4	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Final paving and demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Mobilization - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386

Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**0.0000**	**0.2573**	**0.2573**	**0.0000**	**0.2367**	**0.2367**		**942.5179**	**942.5179**	**0.3048**		**950.1386**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**0.0000**	**0.2573**	**0.2573**	**0.0000**	**0.2367**	**0.2367**	**0.0000**	**942.5179**	**942.5179**	**0.3048**		**950.1386**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

3.3 Injection line and conduit and storm drain connection -

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1904	10.2775	14.0433	0.0226		0.5518	0.5518		0.5321	0.5321		2,164.9843	2,164.9843	0.3711		2,174.2628
Total	**1.1904**	**10.2775**	**14.0433**	**0.0226**		**0.5518**	**0.5518**		**0.5321**	**0.5321**		**2,164.9843**	**2,164.9843**	**0.3711**		**2,174.2628**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.7000e-004	0.0391	9.3000e-003	1.0000e-004	2.3100e-003	1.5000e-004	2.4600e-003	6.3000e-004	1.4000e-004	7.7000e-004		11.1958	11.1958	4.7000e-004		11.2074
Vendor	0.0135	0.4618	0.1278	1.0500e-003	0.0270	1.4400e-003	0.0284	7.7500e-003	1.3700e-003	9.1300e-003		111.7770	111.7770	4.5600e-003		111.8909

Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0492**	**0.5299**	**0.3928**	**1.7600e-003**	**0.0950**	**2.1100e-003**	**0.0971**	**0.0258**	**1.9900e-003**	**0.0278**		**183.3674**	**183.3674**	**7.2600e-003**		**183.5487**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1904	10.2775	14.0433	0.0226		0.5518	0.5518		0.5321	0.5321	0.0000	2,164.9843	2,164.9843	0.3711		2,174.2628
Total	**1.1904**	**10.2775**	**14.0433**	**0.0226**		**0.5518**	**0.5518**		**0.5321**	**0.5321**	**0.0000**	**2,164.9843**	**2,164.9843**	**0.3711**		**2,174.2628**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.7000e-004	0.0391	9.3000e-003	1.0000e-004	2.3100e-003	1.5000e-004	2.4600e-003	6.3000e-004	1.4000e-004	7.7000e-004		11.1958	11.1958	4.7000e-004		11.2074
Vendor	0.0135	0.4618	0.1278	1.0500e-003	0.0270	1.4400e-003	0.0284	7.7500e-003	1.3700e-003	9.1300e-003		111.7770	111.7770	4.5600e-003		111.8909
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0492**	**0.5299**	**0.3928**	**1.7600e-003**	**0.0950**	**2.1100e-003**	**0.0971**	**0.0258**	**1.9900e-003**	**0.0278**		**183.3674**	**183.3674**	**7.2600e-003**		**183.5487**

3.4 Tank foundation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3600e-003	0.0000	2.3600e-003	2.7000e-004	0.0000	2.7000e-004			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**2.3600e-003**	**0.2573**	**0.2597**	**2.7000e-004**	**0.2367**	**0.2370**		**942.5179**	**942.5179**	**0.3048**		**950.1386**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0600e-003	0.0000	1.0600e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000

Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**1.0600e-003**	**0.2573**	**0.2584**	**1.2000e-004**	**0.2367**	**0.2369**	**0.0000**	**942.5179**	**942.5179**	**0.3048**		**950.1386**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

3.5 Tank construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911		1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**		**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0135	0.4618	0.1278	1.0500e-003	0.0463	1.4400e-003	0.0477	0.0125	1.3700e-003	0.0139		111.7770	111.7770	4.5600e-003		111.8909
Worker	0.0695	0.0581	0.5115	1.2100e-003	0.2457	1.0400e-003	0.2467	0.0629	9.6000e-004	0.0639		120.7893	120.7893	4.4600e-003		120.9007
Total	**0.0830**	**0.5199**	**0.6393**	**2.2600e-003**	**0.2919**	**2.4800e-003**	**0.2944**	**0.0754**	**2.3300e-003**	**0.0777**		**232.5662**	**232.5662**	**9.0200e-003**		**232.7916**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911	0.0000	1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**	**0.0000**	**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Mitigated Construction Off-Site

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

Vendor	0.0135	0.4618	0.1278	1.0500e-003	0.0463	1.4400e-003	0.0477	0.0125	1.3700e-003	0.0139		111.7770	111.7770	4.5600e-003		111.8909
Worker	0.0695	0.0581	0.5115	1.2100e-003	0.2457	1.0400e-003	0.2467	0.0629	9.6000e-004	0.0639		120.7893	120.7893	4.4600e-003		120.9007
Total	**0.0830**	**0.5199**	**0.6393**	**2.2600e-003**	**0.2919**	**2.4800e-003**	**0.2944**	**0.0754**	**2.3300e-003**	**0.0777**		**232.5662**	**232.5662**	**9.0200e-003**		**232.7916**

3.6 Wellhead piping - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911		1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**		**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911	0.0000	1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**	**0.0000**	**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

3.7 Building equipment upgrades - 2022

Unmitigated Construction On-Site

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

Off-Road	0.8838	8.0971	11.4629	0.0180		0.4218	0.4218		0.4005	0.4005		1,725.5277	1,725.5277	0.3884		1,735.2368
Total	**0.8838**	**8.0971**	**11.4629**	**0.0180**		**0.4218**	**0.4218**		**0.4005**	**0.4005**		**1,725.5277**	**1,725.5277**	**0.3884**		**1,735.2368**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.9400e-003	0.0782	0.0186	2.1000e-004	4.6200e-003	3.0000e-004	4.9200e-003	1.2600e-003	2.8000e-004	1.5500e-003		22.3915	22.3915	9.3000e-004		22.4149
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0435**	**0.3381**	**0.3382**	**1.3500e-003**	**0.0838**	**1.5400e-003**	**0.0854**	**0.0226**	**1.4500e-003**	**0.0240**		**138.6747**	**138.6747**	**5.4400e-003**		**138.8107**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8838	8.0971	11.4629	0.0180		0.4218	0.4218		0.4005	0.4005	0.0000	1,725.5277	1,725.5277	0.3884		1,735.2368
Total	**0.8838**	**8.0971**	**11.4629**	**0.0180**		**0.4218**	**0.4218**		**0.4005**	**0.4005**	**0.0000**	**1,725.5277**	**1,725.5277**	**0.3884**		**1,735.2368**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.9400e-003	0.0782	0.0186	2.1000e-004	4.6200e-003	3.0000e-004	4.9200e-003	1.2600e-003	2.8000e-004	1.5500e-003		22.3915	22.3915	9.3000e-004		22.4149
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0435**	**0.3381**	**0.3382**	**1.3500e-003**	**0.0838**	**1.5400e-003**	**0.0854**	**0.0226**	**1.4500e-003**	**0.0240**		**138.6747**	**138.6747**	**5.4400e-003**		**138.8107**

3.8 Facility startup and testing - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6295	6.4983	6.5758	0.0106		0.3370	0.3370		0.3100	0.3100		1,029.9239	1,029.9239	0.3331		1,038.2514
Total	**0.6295**	**6.4983**	**6.5758**	**0.0106**		**0.3370**	**0.3370**		**0.3100**	**0.3100**		**1,029.9239**	**1,029.9239**	**0.3331**		**1,038.2514**

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0261	0.0218	0.1918	4.6000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		45.2960	45.2960	1.6700e-003		45.3378
Total	**0.0328**	**0.2527**	**0.2557**	**9.9000e-004**	**0.0628**	**1.1100e-003**	**0.0639**	**0.0170**	**1.0500e-003**	**0.0180**		**101.1845**	**101.1845**	**3.9500e-003**		**101.2832**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6295	6.4983	6.5758	0.0106		0.3370	0.3370		0.3100	0.3100	0.0000	1,029.9239	1,029.9239	0.3331		1,038.2514
Total	**0.6295**	**6.4983**	**6.5758**	**0.0106**		**0.3370**	**0.3370**		**0.3100**	**0.3100**	**0.0000**	**1,029.9239**	**1,029.9239**	**0.3331**		**1,038.2514**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0261	0.0218	0.1918	4.6000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		45.2960	45.2960	1.6700e-003		45.3378
Total	**0.0328**	**0.2527**	**0.2557**	**9.9000e-004**	**0.0628**	**1.1100e-003**	**0.0639**	**0.0170**	**1.0500e-003**	**0.0180**		**101.1845**	**101.1845**	**3.9500e-003**		**101.2832**

3.9 Final paving and demobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8392	8.4867	10.1707	0.0163		0.4182	0.4182		0.3847	0.3847		1,582.4895	1,582.4895	0.5118		1,595.2847
Total	**0.8392**	**8.4867**	**10.1707**	**0.0163**		**0.4182**	**0.4182**		**0.3847**	**0.3847**		**1,582.4895**	**1,582.4895**	**0.5118**		**1,595.2847**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0244	0.0196	0.1751	4.4000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		43.6400	43.6400	1.4900e-003		43.6773
Total	**0.0298**	**0.2138**	**0.2323**	**9.6000e-004**	**0.0628**	**7.9000e-004**	**0.0636**	**0.0170**	**7.4000e-004**	**0.0177**		**98.5623**	**98.5623**	**3.5600e-003**		**98.6513**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8392	8.4867	10.1707	0.0163		0.4182	0.4182		0.3847	0.3847	0.0000	1,582.4895	1,582.4895	0.5118		1,595.2847
Total	**0.8392**	**8.4867**	**10.1707**	**0.0163**		**0.4182**	**0.4182**		**0.3847**	**0.3847**	**0.0000**	**1,582.4895**	**1,582.4895**	**0.5118**		**1,595.2847**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0244	0.0196	0.1751	4.4000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		43.6400	43.6400	1.4900e-003		43.6773
Total	**0.0298**	**0.2138**	**0.2323**	**9.6000e-004**	**0.0628**	**7.9000e-004**	**0.0636**	**0.0170**	**7.4000e-004**	**0.0177**		**98.5623**	**98.5623**	**3.5600e-003**		**98.6513**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981
Other Asphalt Surfaces	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		9.0000e-005	9.0000e-005	0.0000		9.0000e-005
Unmitigated	1.9000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		9.0000e-005	9.0000e-005	0.0000		9.0000e-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	lb/day										lb/day					
Architectural Coating	5.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		9.0000e-005	9.0000e-005	0.0000		9.0000e-005
Total	**1.9000e-004**	**0.0000**	**4.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**9.0000e-005**	**9.0000e-005**	**0.0000**		**9.0000e-005**

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	5.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		9.0000e-005	9.0000e-005	0.0000		9.0000e-005
Total	**1.9000e-004**	**0.0000**	**4.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**9.0000e-005**	**9.0000e-005**	**0.0000**		**9.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Beltz 9 Construction
Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.10	1000sqft	0.00	100.00	0
Other Asphalt Surfaces	0.40	1000sqft	0.01	396.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Beltz 9 Construction

Land Use - Surrogate land uses for monitoring well, pipeline and pavement

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 26 CY of material assumed to be exported and 0.02 acres total disturbed area

Architectural Coating - Default coating EF

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	50	0
tblAreaCoating	Area_Nonresidential_Interior	150	0
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	3.00
tblConstructionPhase	NumDays	100.00	2.00
tblConstructionPhase	PhaseEndDate	5/3/2021	1/13/2023
tblConstructionPhase	PhaseEndDate	2/9/2022	2/3/2023
tblConstructionPhase	PhaseEndDate	11/16/2022	2/10/2023
tblConstructionPhase	PhaseEndDate	4/5/2023	2/17/2023
tblConstructionPhase	PhaseStartDate	5/3/2021	1/9/2023
tblConstructionPhase	PhaseStartDate	9/23/2021	1/30/2023
tblConstructionPhase	PhaseStartDate	6/30/2022	2/6/2023
tblConstructionPhase	PhaseStartDate	11/17/2022	2/13/2023
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	2.50	0.01

tblGrading	AcresOfGrading	2.50	0.01
tblGrading	MaterialExported	0.00	14.00
tblGrading	MaterialExported	0.00	12.00
tblLandUse	LandUseSquareFeet	400.00	396.00
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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	1.00
tblOffRoadEquipment	PhaseName		Site prep and conductor casing install
tblOffRoadEquipment	PhaseName		Well drilling and construction
tblOffRoadEquipment	PhaseName		Well drilling and construction
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Wellhead piping
tblOffRoadEquipment	PhaseName		Facility startup and testing
tblOffRoadEquipment	PhaseName		Final paving and demobilization

tblOffRoadEquipment	PhaseName		Final paving and demobilization
tblOffRoadEquipment	PhaseName		Final paving and demobilization
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblSolidWaste	SolidWasteGenerationRate	0.12	0.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00

tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	13.00	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	23,125.00	0.00

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					
2021	0.0120	0.1208	0.1078	2.5000e-004	5.8000e-004	5.5800e-003	6.1600e-003	1.6000e-004	5.2800e-003	5.4300e-003	0.0000	22.3177	22.3177	5.4700e-003	0.0000	22.4544
2023	0.0124	0.1160	0.1382	2.5000e-004	1.1600e-003	5.3300e-003	6.4900e-003	3.1000e-004	5.0600e-003	5.3800e-003	0.0000	22.1240	22.1240	4.3200e-003	0.0000	22.2321
Maximum	**0.0124**	**0.1208**	**0.1382**	**2.5000e-004**	**1.1600e-003**	**5.5800e-003**	**6.4900e-003**	**3.1000e-004**	**5.2800e-003**	**5.4300e-003**	**0.0000**	**22.3177**	**22.3177**	**5.4700e-003**	**0.0000**	**22.4544**

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					

2021	0.0120	0.1208	0.1078	2.5000e-004	5.8000e-004	5.5800e-003	6.1600e-003	1.6000e-004	5.2800e-003	5.4300e-003	0.0000	22.3176	22.3176	5.4700e-003	0.0000	22.4543
2023	0.0124	0.1160	0.1382	2.5000e-004	1.1500e-003	5.3300e-003	6.4900e-003	3.1000e-004	5.0600e-003	5.3800e-003	0.0000	22.1240	22.1240	4.3200e-003	0.0000	22.2321
Maximum	**0.0124**	**0.1208**	**0.1382**	**2.5000e-004**	**1.1500e-003**	**5.5800e-003**	**6.4900e-003**	**3.1000e-004**	**5.2800e-003**	**5.4300e-003**	**0.0000**	**22.3176**	**22.3176**	**5.4700e-003**	**0.0000**	**22.4543**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.57**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**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	**5-3-2021**	**8-2-2021**	0.0948	0.0948
7	**11-3-2022**	**2-2-2023**	0.0687	0.0687
8	**2-3-2023**	**5-2-2023**	0.0308	0.0308
		Highest	0.0948	0.0948

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	4.3000e-004	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
Total	**4.3000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**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**

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	4.3000e-004	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
Total	**4.3000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site prep and conductor casing install	Site Preparation	5/3/2021	5/7/2021	5	5	
2	Well drilling and construction	Building Construction	5/10/2021	5/14/2021	5	5	
3	Monitoring well development	Building Construction	5/17/2021	5/19/2021	5	3	
4	Site cleanup	Building Construction	5/19/2021	5/20/2021	5	2	
5	Mobilization	Site Preparation	1/9/2023	1/13/2023	5	5	
6	Injection line and conduit	Trenching	1/16/2023	1/27/2023	5	10	
7	Wellhead piping	Building Construction	1/30/2023	2/3/2023	5	5	
8	Facility startup and testing	Building Construction	2/6/2023	2/10/2023	5	5	
9	Final paving and demobilization	Building Construction	2/13/2023	2/17/2023	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Well drilling and construction	Cranes	0	0.00	231	0.29
Monitoring well development	Cranes	0	0.00	231	0.29
Site cleanup	Cranes	1	4.00	231	0.29
Well drilling and construction	Forklifts	1	24.00	89	0.20
Monitoring well development	Forklifts	1	8.00	89	0.20
Site cleanup	Forklifts	1	8.00	89	0.20
Site prep and conductor casing install	Graders	1	8.00	187	0.41
Well drilling and construction	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Monitoring well development	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site cleanup	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site prep and conductor casing install	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site prep and conductor casing install	Bore/Drill Rigs	1	8.00	221	0.50
Well drilling and construction	Bore/Drill Rigs	1	24.00	221	0.50
Wellhead piping	Cranes	1	4.00	231	0.29
Wellhead piping	Forklifts	1	8.00	89	0.20
Well drilling and construction	Pumps	1	24.00	84	0.74
Wellhead piping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Monitoring well development	Air Compressors	1	8.00	78	0.48
Monitoring well development	Bore/Drill Rigs	1	8.00	221	0.50
Monitoring well development	Generator Sets	1	8.00	84	0.74
Injection line and conduit	Concrete/Industrial Saws	1	8.00	81	0.73
Injection line and conduit	Excavators	1	8.00	158	0.38

Facility startup and testing	Cranes	1	4.00	231	0.29
Facility startup and testing	Forklifts	1	8.00	89	0.20
Facility startup and testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Final paving and demobilization	Cranes	1	4.00	231	0.29
Final paving and demobilization	Forklifts	1	8.00	89	0.20
Injection line and conduit	Forklifts	1	8.00	89	0.20
Injection line and conduit	Pumps	1	8.00	84	0.74
Injection line and conduit	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Final paving and demobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Wellhead piping	Generator Sets	1	8.00	84	0.74
Facility startup and testing	Generator Sets	1	8.00	84	0.74
Final paving and demobilization	Pavers	1	4.00	130	0.42
Final paving and demobilization	Paving Equipment	1	4.00	132	0.36
Final paving and demobilization	Rollers	1	4.00	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
Mobilization	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well drilling and construction	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Monitoring well development	4	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site cleanup	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site prep and conductor casing install	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead piping	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Injection line and conduit	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	3	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Final paving and demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site prep and conductor casing install - 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					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2500e-003	0.0271	0.0153	5.0000e-005		9.8000e-004	9.8000e-004		9.0000e-004	9.0000e-004	0.0000	4.2063	4.2063	1.3600e-003	0.0000	4.2403
Total	**2.2500e-003**	**0.0271**	**0.0153**	**5.0000e-005**	**1.0000e-005**	**9.8000e-004**	**9.9000e-004**	**0.0000**	**9.0000e-004**	**9.0000e-004**	**0.0000**	**4.2063**	**4.2063**	**1.3600e-003**	**0.0000**	**4.2403**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	6.1000e-004	1.6000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1294	0.1294	1.0000e-005	0.0000	0.1295
Worker	8.0000e-005	7.0000e-005	6.7000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1420	0.1420	1.0000e-005	0.0000	0.1421
Total	**1.0000e-004**	**6.8000e-004**	**8.3000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2714**	**0.2714**	**2.0000e-005**	**0.0000**	**0.2716**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2500e-003	0.0271	0.0153	5.0000e-005		9.8000e-004	9.8000e-004		9.0000e-004	9.0000e-004	0.0000	4.2063	4.2063	1.3600e-003	0.0000	4.2403
Total	**2.2500e-003**	**0.0271**	**0.0153**	**5.0000e-005**	**0.0000**	**9.8000e-004**	**9.8000e-004**	**0.0000**	**9.0000e-004**	**9.0000e-004**	**0.0000**	**4.2063**	**4.2063**	**1.3600e-003**	**0.0000**	**4.2403**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	6.1000e-004	1.6000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1294	0.1294	1.0000e-005	0.0000	0.1295
Worker	8.0000e-005	7.0000e-005	6.7000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1420	0.1420	1.0000e-005	0.0000	0.1421
Total	**1.0000e-004**	**6.8000e-004**	**8.3000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2714**	**0.2714**	**2.0000e-005**	**0.0000**	**0.2716**

3.3 Well drilling and 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	7.1600e-003	0.0698	0.0693	1.5000e-004		3.4900e-003	3.4900e-003		3.3100e-003	3.3100e-003	0.0000	13.4991	13.4991	3.2300e-003	0.0000	13.5798
Total	**7.1600e-003**	**0.0698**	**0.0693**	**1.5000e-004**		**3.4900e-003**	**3.4900e-003**		**3.3100e-003**	**3.3100e-003**	**0.0000**	**13.4991**	**13.4991**	**3.2300e-003**	**0.0000**	**13.5798**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.2000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0777	0.0777	0.0000	0.0000	0.0778
Vendor	2.0000e-005	6.1000e-004	1.6000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1294	0.1294	1.0000e-005	0.0000	0.1295
Worker	8.0000e-005	7.0000e-005	6.7000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1420	0.1420	1.0000e-005	0.0000	0.1421
Total	**1.1000e-004**	**1.0000e-003**	**9.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.3491**	**0.3491**	**2.0000e-005**	**0.0000**	**0.3494**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.1600e-003	0.0698	0.0693	1.5000e-004		3.4900e-003	3.4900e-003		3.3100e-003	3.3100e-003	0.0000	13.4991	13.4991	3.2300e-003	0.0000	13.5797
Total	**7.1600e-003**	**0.0698**	**0.0693**	**1.5000e-004**		**3.4900e-003**	**3.4900e-003**		**3.3100e-003**	**3.3100e-003**	**0.0000**	**13.4991**	**13.4991**	**3.2300e-003**	**0.0000**	**13.5797**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.2000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0777	0.0777	0.0000	0.0000	0.0778
Vendor	2.0000e-005	6.1000e-004	1.6000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1294	0.1294	1.0000e-005	0.0000	0.1295
Worker	8.0000e-005	7.0000e-005	6.7000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1420	0.1420	1.0000e-005	0.0000	0.1421
Total	**1.1000e-004**	**1.0000e-003**	**9.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.3491**	**0.3491**	**2.0000e-005**	**0.0000**	**0.3494**

3.4 Monitoring well development - 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	1.5600e-003	0.0141	0.0140	3.0000e-005		7.0000e-004	7.0000e-004		6.8000e-004	6.8000e-004	0.0000	2.8010	2.8010	5.4000e-004	0.0000	2.8146
Total	**1.5600e-003**	**0.0141**	**0.0140**	**3.0000e-005**		**7.0000e-004**	**7.0000e-004**		**6.8000e-004**	**6.8000e-004**	**0.0000**	**2.8010**	**2.8010**	**5.4000e-004**	**0.0000**	**2.8146**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.7000e-004	1.0000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0776	0.0776	0.0000	0.0000	0.0777
Worker	5.0000e-005	4.0000e-005	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0852	0.0852	0.0000	0.0000	0.0853

Total	**6.0000e-005**	**4.1000e-004**	**5.0000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.2000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1628**	**0.1628**	**0.0000**	**0.0000**	**0.1630**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5600e-003	0.0141	0.0140	3.0000e-005		7.0000e-004	7.0000e-004		6.8000e-004	6.8000e-004	0.0000	2.8010	2.8010	5.4000e-004	0.0000	2.8146
Total	**1.5600e-003**	**0.0141**	**0.0140**	**3.0000e-005**		**7.0000e-004**	**7.0000e-004**		**6.8000e-004**	**6.8000e-004**	**0.0000**	**2.8010**	**2.8010**	**5.4000e-004**	**0.0000**	**2.8146**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.7000e-004	1.0000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0776	0.0776	0.0000	0.0000	0.0777
Worker	5.0000e-005	4.0000e-005	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0852	0.0852	0.0000	0.0000	0.0853
Total	**6.0000e-005**	**4.1000e-004**	**5.0000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.2000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1628**	**0.1628**	**0.0000**	**0.0000**	**0.1630**

3.5 Site cleanup - 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	7.1000e-004	7.4000e-003	6.6800e-003	1.0000e-005		4.1000e-004	4.1000e-004		3.7000e-004	3.7000e-004	0.0000	0.9337	0.9337	3.0000e-004	0.0000	0.9412
Total	**7.1000e-004**	**7.4000e-003**	**6.6800e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**0.9337**	**0.9337**	**3.0000e-004**	**0.0000**	**0.9412**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.4000e-004	7.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0517	0.0517	0.0000	0.0000	0.0518
Worker	3.0000e-005	2.0000e-005	2.0000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0426	0.0426	0.0000	0.0000	0.0426
Total	**4.0000e-005**	**2.6000e-004**	**2.7000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0943**	**0.0943**	**0.0000**	**0.0000**	**0.0944**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.1000e-004	7.4000e-003	6.6800e-003	1.0000e-005		4.1000e-004	4.1000e-004		3.7000e-004	3.7000e-004	0.0000	0.9337	0.9337	3.0000e-004	0.0000	0.9412
Total	**7.1000e-004**	**7.4000e-003**	**6.6800e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**0.9337**	**0.9337**	**3.0000e-004**	**0.0000**	**0.9412**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.4000e-004	7.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0517	0.0517	0.0000	0.0000	0.0518
Worker	3.0000e-005	2.0000e-005	2.0000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0426	0.0426	0.0000	0.0000	0.0426
Total	**4.0000e-005**	**2.6000e-004**	**2.7000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0943**	**0.0943**	**0.0000**	**0.0000**	**0.0944**

3.6 Mobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3400e-003	0.0155	9.8100e-003	2.0000e-005		5.7000e-004	5.7000e-004		5.2000e-004	5.2000e-004	0.0000	2.1374	2.1374	6.9000e-004	0.0000	2.1547
Total	**1.3400e-003**	**0.0155**	**9.8100e-003**	**2.0000e-005**	**1.0000e-005**	**5.7000e-004**	**5.8000e-004**	**0.0000**	**5.2000e-004**	**5.2000e-004**	**0.0000**	**2.1374**	**2.1374**	**6.9000e-004**	**0.0000**	**2.1547**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	7.0000e-005	6.0000e-005	5.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1321	0.1321	0.0000	0.0000	0.1322
Total	**8.0000e-005**	**5.5000e-004**	**6.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2582**	**0.2582**	**0.0000**	**0.0000**	**0.2585**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3400e-003	0.0155	9.8100e-003	2.0000e-005		5.7000e-004	5.7000e-004		5.2000e-004	5.2000e-004	0.0000	2.1374	2.1374	6.9000e-004	0.0000	2.1547
Total	**1.3400e-003**	**0.0155**	**9.8100e-003**	**2.0000e-005**	**0.0000**	**5.7000e-004**	**5.7000e-004**	**0.0000**	**5.2000e-004**	**5.2000e-004**	**0.0000**	**2.1374**	**2.1374**	**6.9000e-004**	**0.0000**	**2.1547**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263

Worker	7.0000e-005	6.0000e-005	5.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1321	0.1321	0.0000	0.0000	0.1322
Total	**8.0000e-005**	**5.5000e-004**	**6.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2582**	**0.2582**	**0.0000**	**0.0000**	**0.2585**

3.7 Injection line and conduit - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5200e-003	0.0469	0.0701	1.1000e-004		2.3700e-003	2.3700e-003		2.2900e-003	2.2900e-003	0.0000	9.8222	9.8222	1.6500e-003	0.0000	9.8635
Total	**5.5200e-003**	**0.0469**	**0.0701**	**1.1000e-004**		**2.3700e-003**	**2.3700e-003**		**2.2900e-003**	**2.2900e-003**	**0.0000**	**9.8222**	**9.8222**	**1.6500e-003**	**0.0000**	**9.8635**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.3000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0750	0.0750	0.0000	0.0000	0.0750
Vendor	5.0000e-005	1.9500e-003	5.4000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5046	0.5046	2.0000e-005	0.0000	0.5051
Worker	1.5000e-004	1.2000e-004	1.1200e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2642	0.2642	1.0000e-005	0.0000	0.2644
Total	**2.1000e-004**	**2.3000e-003**	**1.7200e-003**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**4.7000e-004**	**1.2000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.8437**	**0.8437**	**3.0000e-005**	**0.0000**	**0.8445**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.5200e-003	0.0469	0.0701	1.1000e-004		2.3700e-003	2.3700e-003		2.2900e-003	2.2900e-003	0.0000	9.8221	9.8221	1.6500e-003	0.0000	9.8635
Total	**5.5200e-003**	**0.0469**	**0.0701**	**1.1000e-004**		**2.3700e-003**	**2.3700e-003**		**2.2900e-003**	**2.2900e-003**	**0.0000**	**9.8221**	**9.8221**	**1.6500e-003**	**0.0000**	**9.8635**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.3000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0750	0.0750	0.0000	0.0000	0.0750
Vendor	5.0000e-005	1.9500e-003	5.4000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5046	0.5046	2.0000e-005	0.0000	0.5051
Worker	1.5000e-004	1.2000e-004	1.1200e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2642	0.2642	1.0000e-005	0.0000	0.2644
Total	**2.1000e-004**	**2.3000e-003**	**1.7200e-003**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**4.7000e-004**	**1.2000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.8437**	**0.8437**	**3.0000e-005**	**0.0000**	**0.8445**

3.8 Wellhead piping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4600e-003	0.0140	0.0143	3.0000e-005		6.7000e-004	6.7000e-004		6.4000e-004	6.4000e-004	0.0000	2.3824	2.3824	3.8000e-004	0.0000	2.3918

Total	**1.4600e-003**	**0.0140**	**0.0143**	**3.0000e-005**		**6.7000e-004**	**6.7000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.3824**	**2.3824**	**3.8000e-004**	**0.0000**	**2.3918**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	7.0000e-005	6.0000e-005	5.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1321	0.1321	0.0000	0.0000	0.1322
Total	**8.0000e-005**	**5.5000e-004**	**6.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2582**	**0.2582**	**0.0000**	**0.0000**	**0.2585**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4600e-003	0.0140	0.0143	3.0000e-005		6.7000e-004	6.7000e-004		6.4000e-004	6.4000e-004	0.0000	2.3824	2.3824	3.8000e-004	0.0000	2.3918
Total	**1.4600e-003**	**0.0140**	**0.0143**	**3.0000e-005**		**6.7000e-004**	**6.7000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.3824**	**2.3824**	**3.8000e-004**	**0.0000**	**2.3918**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	7.0000e-005	6.0000e-005	5.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1321	0.1321	0.0000	0.0000	0.1322
Total	**8.0000e-005**	**5.5000e-004**	**6.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2582**	**0.2582**	**0.0000**	**0.0000**	**0.2585**

3.9 Facility startup and testing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4600e-003	0.0140	0.0143	3.0000e-005		6.7000e-004	6.7000e-004		6.4000e-004	6.4000e-004	0.0000	2.3824	2.3824	3.8000e-004	0.0000	2.3918
Total	**1.4600e-003**	**0.0140**	**0.0143**	**3.0000e-005**		**6.7000e-004**	**6.7000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.3824**	**2.3824**	**3.8000e-004**	**0.0000**	**2.3918**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	5.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0991	0.0991	0.0000	0.0000	0.0991
Total	**6.0000e-005**	**5.3000e-004**	**5.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2252**	**0.2252**	**0.0000**	**0.0000**	**0.2254**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4600e-003	0.0140	0.0143	3.0000e-005		6.7000e-004	6.7000e-004		6.4000e-004	6.4000e-004	0.0000	2.3824	2.3824	3.8000e-004	0.0000	2.3918
Total	**1.4600e-003**	**0.0140**	**0.0143**	**3.0000e-005**		**6.7000e-004**	**6.7000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.3824**	**2.3824**	**3.8000e-004**	**0.0000**	**2.3918**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	5.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0991	0.0991	0.0000	0.0000	0.0991
Total	**6.0000e-005**	**5.3000e-004**	**5.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2252**	**0.2252**	**0.0000**	**0.0000**	**0.2254**

3.10 Final paving and demobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1000e-003	0.0212	0.0254	4.0000e-005		1.0500e-003	1.0500e-003		9.6000e-004	9.6000e-004	0.0000	3.5890	3.5890	1.1600e-003	0.0000	3.6180
Total	**2.1000e-003**	**0.0212**	**0.0254**	**4.0000e-005**		**1.0500e-003**	**1.0500e-003**		**9.6000e-004**	**9.6000e-004**	**0.0000**	**3.5890**	**3.5890**	**1.1600e-003**	**0.0000**	**3.6180**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	5.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0991	0.0991	0.0000	0.0000	0.0991
Total	**6.0000e-005**	**5.3000e-004**	**5.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2252**	**0.2252**	**0.0000**	**0.0000**	**0.2254**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1000e-003	0.0212	0.0254	4.0000e-005		1.0500e-003	1.0500e-003		9.6000e-004	9.6000e-004	0.0000	3.5890	3.5890	1.1600e-003	0.0000	3.6180
Total	**2.1000e-003**	**0.0212**	**0.0254**	**4.0000e-005**		**1.0500e-003**	**1.0500e-003**		**9.6000e-004**	**9.6000e-004**	**0.0000**	**3.5890**	**3.5890**	**1.1600e-003**	**0.0000**	**3.6180**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	5.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0991	0.0991	0.0000	0.0000	0.0991
Total	**6.0000e-005**	**5.3000e-004**	**5.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2252**	**0.2252**	**0.0000**	**0.0000**	**0.2254**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981
Other Asphalt Surfaces	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.3000e-004	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	4.3000e-004	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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.2000e-004					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
Total	**4.3000e-004**	**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**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.2000e-004					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
Total	**4.3000e-004**	**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**

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

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
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Beltz 9 Construction
Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.10	1000sqft	0.00	100.00	0
Other Asphalt Surfaces	0.40	1000sqft	0.01	396.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Beltz 9 Construction

Land Use - Surrogate land uses for monitoring well, pipeline and pavement

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 26 CY of material assumed to be exported and 0.02 acres total disturbed area

Architectural Coating - Default coating EF

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	50	0
tblAreaCoating	Area_Nonresidential_Interior	150	0
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	3.00
tblConstructionPhase	NumDays	100.00	2.00
tblConstructionPhase	PhaseEndDate	5/3/2021	1/13/2023
tblConstructionPhase	PhaseEndDate	2/9/2022	2/3/2023
tblConstructionPhase	PhaseEndDate	11/16/2022	2/10/2023
tblConstructionPhase	PhaseEndDate	4/5/2023	2/17/2023
tblConstructionPhase	PhaseStartDate	5/3/2021	1/9/2023
tblConstructionPhase	PhaseStartDate	9/23/2021	1/30/2023
tblConstructionPhase	PhaseStartDate	6/30/2022	2/6/2023
tblConstructionPhase	PhaseStartDate	11/17/2022	2/13/2023
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	2.50	0.01

tblGrading	AcresOfGrading	2.50	0.01
tblGrading	MaterialExported	0.00	14.00
tblGrading	MaterialExported	0.00	12.00
tblLandUse	LandUseSquareFeet	400.00	396.00
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site prep and conductor casing install
tblOffRoadEquipment	PhaseName		Well drilling and construction
tblOffRoadEquipment	PhaseName		Well drilling and construction
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Wellhead piping
tblOffRoadEquipment	PhaseName		Facility startup and testing
tblOffRoadEquipment	PhaseName		Final paving and demobilization

tblOffRoadEquipment	PhaseName		Final paving and demobilization
tblOffRoadEquipment	PhaseName		Final paving and demobilization
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblSolidWaste	SolidWasteGenerationRate	0.12	0.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00

tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	13.00	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	23,125.00	0.00

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					
2021	2.9087	28.3164	28.0947	0.0634	0.1420	1.3959	1.4820	0.0383	1.3269	1.3501	0.0000	6,109.7503	6,109.7503	1.4286	0.0000	6,145.4655
2023	1.4347	15.0987	14.6019	0.0282	0.1443	0.4755	0.7907	0.0385	0.4585	0.6332	0.0000	2,744.0517	2,744.0517	0.8241	0.0000	2,764.6540
Maximum	**2.9087**	**28.3164**	**28.0947**	**0.0634**	**0.1443**	**1.3959**	**1.4820**	**0.0385**	**1.3269**	**1.3501**	**0.0000**	**6,109.7503**	**6,109.7503**	**1.4286**	**0.0000**	**6,145.4655**

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					

2021	2.9087	28.3164	28.0947	0.0634	0.1420	1.3959	1.4820	0.0383	1.3269	1.3501	0.0000	6,109.7503	6,109.7503	1.4286	0.0000	6,145.4655
2023	1.4347	15.0987	14.6019	0.0282	0.1430	0.4755	0.7894	0.0384	0.4585	0.6331	0.0000	2,744.0517	2,744.0517	0.8241	0.0000	2,764.6540
Maximum	**2.9087**	**28.3164**	**28.0947**	**0.0634**	**0.1430**	**1.3959**	**1.4820**	**0.0384**	**1.3269**	**1.3501**	**0.0000**	**6,109.7503**	**6,109.7503**	**1.4286**	**0.0000**	**6,145.4655**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.45**	**0.00**	**0.06**	**0.20**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	2.3300e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.1000e-004	1.1000e-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
Total	**2.3300e-003**	**0.0000**	**5.0000e-005**	**0.0000**	**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**

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	2.3300e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.1000e-004	1.1000e-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
Total	**2.3300e-003**	**0.0000**	**5.0000e-005**	**0.0000**	**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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site prep and conductor casing install	Site Preparation	5/3/2021	5/7/2021	5	5	
2	Well drilling and construction	Building Construction	5/10/2021	5/14/2021	5	5	
3	Monitoring well development	Building Construction	5/17/2021	5/19/2021	5	3	
4	Site cleanup	Building Construction	5/19/2021	5/20/2021	5	2	
5	Mobilization	Site Preparation	1/9/2023	1/13/2023	5	5	
6	Injection line and conduit	Trenching	1/16/2023	1/27/2023	5	10	
7	Wellhead piping	Building Construction	1/30/2023	2/3/2023	5	5	
8	Facility startup and testing	Building Construction	2/6/2023	2/10/2023	5	5	
9	Final paving and demobilization	Building Construction	2/13/2023	2/17/2023	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Well drilling and construction	Cranes	0	0.00	231	0.29

Monitoring well development	Cranes	0	0.00	231	0.29
Site cleanup	Cranes	1	4.00	231	0.29
Well drilling and construction	Forklifts	1	24.00	89	0.20
Monitoring well development	Forklifts	1	8.00	89	0.20
Site cleanup	Forklifts	1	8.00	89	0.20
Site prep and conductor casing install	Graders	1	8.00	187	0.41
Well drilling and construction	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Monitoring well development	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site cleanup	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site prep and conductor casing install	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site prep and conductor casing install	Bore/Drill Rigs	1	8.00	221	0.50
Well drilling and construction	Bore/Drill Rigs	1	24.00	221	0.50
Wellhead piping	Cranes	1	4.00	231	0.29
Wellhead piping	Forklifts	1	8.00	89	0.20
Well drilling and construction	Pumps	1	24.00	84	0.74
Wellhead piping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Monitoring well development	Air Compressors	1	8.00	78	0.48
Monitoring well development	Bore/Drill Rigs	1	8.00	221	0.50
Monitoring well development	Generator Sets	1	8.00	84	0.74
Injection line and conduit	Concrete/Industrial Saws	1	8.00	81	0.73
Injection line and conduit	Excavators	1	8.00	158	0.38
Facility startup and testing	Cranes	1	4.00	231	0.29
Facility startup and testing	Forklifts	1	8.00	89	0.20
Facility startup and testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Final paving and demobilization	Cranes	1	4.00	231	0.29
Final paving and demobilization	Forklifts	1	8.00	89	0.20
Injection line and conduit	Forklifts	1	8.00	89	0.20
Injection line and conduit	Pumps	1	8.00	84	0.74
Injection line and conduit	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Final paving and demobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Wellhead piping	Generator Sets	1	8.00	84	0.74

Facility startup and testing	Generator Sets	1	8.00	84	0.74
Final paving and demobilization	Pavers	1	4.00	130	0.42
Final paving and demobilization	Paving Equipment	1	4.00	132	0.36
Final paving and demobilization	Rollers	1	4.00	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
Mobilization	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well drilling and construction	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Monitoring well development	4	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site cleanup	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site prep and conductor casing install	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead piping	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Injection line and conduit	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	3	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Final paving and demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site prep and conductor casing install - 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					2.3300e-003	0.0000	2.3300e-003	2.6000e-004	0.0000	2.6000e-004			0.0000			0.0000
Off-Road	0.8984	10.8432	6.1014	0.0192		0.3911	0.3911		0.3598	0.3598		1,854.6466	1,854.6466	0.5998		1,869.6424

Total	**0.8984**	**10.8432**	**6.1014**	**0.0192**	**2.3300e-003**	**0.3911**	**0.3934**	**2.6000e-004**	**0.3598**	**0.3601**		**1,854.6466**	**1,854.6466**	**0.5998**		**1,869.6424**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.9000e-003	0.2421	0.0616	5.4000e-004	0.0135	7.7000e-004	0.0143	3.8800e-003	7.4000e-004	4.6200e-003		57.5466	57.5466	2.2000e-003		57.6016
Worker	0.0332	0.0261	0.2772	6.6000e-004	0.0657	5.4000e-004	0.0663	0.0174	5.0000e-004	0.0179		65.6571	65.6571	2.5700e-003		65.7214
Total	**0.0401**	**0.2681**	**0.3388**	**1.2000e-003**	**0.0792**	**1.3100e-003**	**0.0805**	**0.0213**	**1.2400e-003**	**0.0226**		**123.2038**	**123.2038**	**4.7700e-003**		**123.3230**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0500e-003	0.0000	1.0500e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	0.8984	10.8432	6.1014	0.0192		0.3911	0.3911		0.3598	0.3598	0.0000	1,854.6466	1,854.6466	0.5998		1,869.6424
Total	**0.8984**	**10.8432**	**6.1014**	**0.0192**	**1.0500e-003**	**0.3911**	**0.3922**	**1.2000e-004**	**0.3598**	**0.3599**	**0.0000**	**1,854.6466**	**1,854.6466**	**0.5998**		**1,869.6424**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.9000e-003	0.2421	0.0616	5.4000e-004	0.0135	7.7000e-004	0.0143	3.8800e-003	7.4000e-004	4.6200e-003		57.5466	57.5466	2.2000e-003		57.6016
Worker	0.0332	0.0261	0.2772	6.6000e-004	0.0657	5.4000e-004	0.0663	0.0174	5.0000e-004	0.0179		65.6571	65.6571	2.5700e-003		65.7214
Total	**0.0401**	**0.2681**	**0.3388**	**1.2000e-003**	**0.0792**	**1.3100e-003**	**0.0805**	**0.0213**	**1.2400e-003**	**0.0226**		**123.2038**	**123.2038**	**4.7700e-003**		**123.3230**

3.3 Well drilling and 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	2.8656	27.9231	27.7280	0.0619		1.3941	1.3941		1.3252	1.3252		5,952.0869	5,952.0869	1.4225		5,987.6488
Total	**2.8656**	**27.9231**	**27.7280**	**0.0619**		**1.3941**	**1.3941**		**1.3252**	**1.3252**		**5,952.0869**	**5,952.0869**	**1.4225**		**5,987.6488**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0200e-003	0.1251	0.0279	3.2000e-004	6.9300e-003	5.0000e-004	7.4200e-003	1.8900e-003	4.7000e-004	2.3700e-003		34.4596	34.4596	1.3600e-003		34.4937
Vendor	6.9000e-003	0.2421	0.0616	5.4000e-004	0.0135	7.7000e-004	0.0143	3.8800e-003	7.4000e-004	4.6200e-003		57.5466	57.5466	2.2000e-003		57.6016

Worker	0.0332	0.0261	0.2772	6.6000e-004	0.0657	5.4000e-004	0.0663	0.0174	5.0000e-004	0.0179		65.6571	65.6571	2.5700e-003		65.7214
Total	**0.0431**	**0.3932**	**0.3667**	**1.5200e-003**	**0.0861**	**1.8100e-003**	**0.0879**	**0.0232**	**1.7100e-003**	**0.0249**		**157.6633**	**157.6633**	**6.1300e-003**		**157.8166**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.8656	27.9231	27.7280	0.0619		1.3941	1.3941		1.3252	1.3252	0.0000	5,952.0869	5,952.0869	1.4225		5,987.6488
Total	**2.8656**	**27.9231**	**27.7280**	**0.0619**		**1.3941**	**1.3941**		**1.3252**	**1.3252**	**0.0000**	**5,952.0869**	**5,952.0869**	**1.4225**		**5,987.6488**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0200e-003	0.1251	0.0279	3.2000e-004	6.9300e-003	5.0000e-004	7.4200e-003	1.8900e-003	4.7000e-004	2.3700e-003		34.4596	34.4596	1.3600e-003		34.4937
Vendor	6.9000e-003	0.2421	0.0616	5.4000e-004	0.0135	7.7000e-004	0.0143	3.8800e-003	7.4000e-004	4.6200e-003		57.5466	57.5466	2.2000e-003		57.6016
Worker	0.0332	0.0261	0.2772	6.6000e-004	0.0657	5.4000e-004	0.0663	0.0174	5.0000e-004	0.0179		65.6571	65.6571	2.5700e-003		65.7214
Total	**0.0431**	**0.3932**	**0.3667**	**1.5200e-003**	**0.0861**	**1.8100e-003**	**0.0879**	**0.0232**	**1.7100e-003**	**0.0249**		**157.6633**	**157.6633**	**6.1300e-003**		**157.8166**

3.4 Monitoring well development - 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	1.0368	9.4039	9.3499	0.0215		0.4685	0.4685		0.4545	0.4545		2,058.3919	2,058.3919	0.4004		2,068.4019
Total	**1.0368**	**9.4039**	**9.3499**	**0.0215**		**0.4685**	**0.4685**		**0.4545**	**0.4545**		**2,058.3919**	**2,058.3919**	**0.4004**		**2,068.4019**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.9000e-003	0.2421	0.0616	5.4000e-004	0.0135	7.7000e-004	0.0143	3.8800e-003	7.4000e-004	4.6200e-003		57.5466	57.5466	2.2000e-003		57.6016
Worker	0.0332	0.0261	0.2772	6.6000e-004	0.0657	5.4000e-004	0.0663	0.0174	5.0000e-004	0.0179		65.6571	65.6571	2.5700e-003		65.7214
Total	**0.0401**	**0.2681**	**0.3388**	**1.2000e-003**	**0.0792**	**1.3100e-003**	**0.0805**	**0.0213**	**1.2400e-003**	**0.0226**		**123.2038**	**123.2038**	**4.7700e-003**		**123.3230**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0368	9.4039	9.3499	0.0215		0.4685	0.4685		0.4545	0.4545	0.0000	2,058.3919	2,058.3919	0.4004		2,068.4019

Total	**1.0368**	**9.4039**	**9.3499**	**0.0215**		**0.4685**	**0.4685**		**0.4545**	**0.4545**	**0.0000**	**2,058.3919**	**2,058.3919**	**0.4004**		**2,068.4019**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.9000e-003	0.2421	0.0616	5.4000e-004	0.0135	7.7000e-004	0.0143	3.8800e-003	7.4000e-004	4.6200e-003		57.5466	57.5466	2.2000e-003		57.6016
Worker	0.0332	0.0261	0.2772	6.6000e-004	0.0657	5.4000e-004	0.0663	0.0174	5.0000e-004	0.0179		65.6571	65.6571	2.5700e-003		65.7214
Total	**0.0401**	**0.2681**	**0.3388**	**1.2000e-003**	**0.0792**	**1.3100e-003**	**0.0805**	**0.0213**	**1.2400e-003**	**0.0226**		**123.2038**	**123.2038**	**4.7700e-003**		**123.3230**

3.5 Site cleanup - 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	0.7103	7.3954	6.6798	0.0106		0.4057	0.4057		0.3732	0.3732		1,029.2004	1,029.2004	0.3329		1,037.5220
Total	**0.7103**	**7.3954**	**6.6798**	**0.0106**		**0.4057**	**0.4057**		**0.3732**	**0.3732**		**1,029.2004**	**1,029.2004**	**0.3329**		**1,037.5220**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.9000e-003	0.2421	0.0616	5.4000e-004	0.0135	7.7000e-004	0.0143	3.8800e-003	7.4000e-004	4.6200e-003		57.5466	57.5466	2.2000e-003		57.6016
Worker	0.0249	0.0195	0.2079	4.9000e-004	0.0493	4.0000e-004	0.0497	0.0131	3.7000e-004	0.0135		49.2429	49.2429	1.9300e-003		49.2911
Total	**0.0318**	**0.2616**	**0.2695**	**1.0300e-003**	**0.0628**	**1.1700e-003**	**0.0639**	**0.0170**	**1.1100e-003**	**0.0181**		**106.7895**	**106.7895**	**4.1300e-003**		**106.8926**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7103	7.3954	6.6798	0.0106		0.4057	0.4057		0.3732	0.3732	0.0000	1,029.2004	1,029.2004	0.3329		1,037.5220
Total	**0.7103**	**7.3954**	**6.6798**	**0.0106**		**0.4057**	**0.4057**		**0.3732**	**0.3732**	**0.0000**	**1,029.2004**	**1,029.2004**	**0.3329**		**1,037.5220**

Mitigated Construction Off-Site

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

Vendor	6.9000e-003	0.2421	0.0616	5.4000e-004	0.0135	7.7000e-004	0.0143	3.8800e-003	7.4000e-004	4.6200e-003		57.5466	57.5466	2.2000e-003		57.6016
Worker	0.0249	0.0195	0.2079	4.9000e-004	0.0493	4.0000e-004	0.0497	0.0131	3.7000e-004	0.0135		49.2429	49.2429	1.9300e-003		49.2911
Total	**0.0318**	**0.2616**	**0.2695**	**1.0300e-003**	**0.0628**	**1.1700e-003**	**0.0639**	**0.0170**	**1.1100e-003**	**0.0181**		**106.7895**	**106.7895**	**4.1300e-003**		**106.8926**

3.6 Mobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3600e-003	0.0000	2.3600e-003	2.7000e-004	0.0000	2.7000e-004			0.0000			0.0000
Off-Road	0.5348	6.1887	3.9239	9.7300e-003		0.2266	0.2266		0.2084	0.2084		942.4317	942.4317	0.3048		950.0517
Total	**0.5348**	**6.1887**	**3.9239**	**9.7300e-003**	**2.3600e-003**	**0.2266**	**0.2289**	**2.7000e-004**	**0.2084**	**0.2087**		**942.4317**	**942.4317**	**0.3048**		**950.0517**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0289	0.0210	0.2319	6.1000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		61.0690	61.0690	2.0600e-003		61.1205
Total	**0.0340**	**0.2143**	**0.2826**	**1.1400e-003**	**0.0792**	**8.9000e-004**	**0.0801**	**0.0213**	**8.3000e-004**	**0.0221**		**117.1989**	**117.1989**	**4.0000e-003**		**117.2989**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0600e-003	0.0000	1.0600e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	0.5348	6.1887	3.9239	9.7300e-003		0.2266	0.2266		0.2084	0.2084	0.0000	942.4317	942.4317	0.3048		950.0517
Total	**0.5348**	**6.1887**	**3.9239**	**9.7300e-003**	**1.0600e-003**	**0.2266**	**0.2276**	**1.2000e-004**	**0.2084**	**0.2086**	**0.0000**	**942.4317**	**942.4317**	**0.3048**		**950.0517**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0289	0.0210	0.2319	6.1000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		61.0690	61.0690	2.0600e-003		61.1205
Total	**0.0340**	**0.2143**	**0.2826**	**1.1400e-003**	**0.0792**	**8.9000e-004**	**0.0801**	**0.0213**	**8.3000e-004**	**0.0221**		**117.1989**	**117.1989**	**4.0000e-003**		**117.2989**

3.7 Injection line and conduit - 2023

Unmitigated Construction On-Site

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

Off-Road	1.1041	9.3811	14.0165	0.0227		0.4740	0.4740		0.4572	0.4572		2,165.4132	2,165.4132	0.3649		2,174.5347
Total	**1.1041**	**9.3811**	**14.0165**	**0.0227**		**0.4740**	**0.4740**		**0.4572**	**0.4572**		**2,165.4132**	**2,165.4132**	**0.3649**		**2,174.5347**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1000e-003	0.0453	0.0123	1.6000e-004	3.4600e-003	1.3000e-004	3.6000e-003	9.5000e-004	1.3000e-004	1.0800e-003		16.6237	16.6237	6.4000e-004		16.6397
Vendor	0.0101	0.3866	0.1013	1.0600e-003	0.0270	7.7000e-004	0.0277	7.7600e-003	7.4000e-004	8.4900e-003		112.2598	112.2598	3.8800e-003		112.3567
Worker	0.0289	0.0210	0.2319	6.1000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		61.0690	61.0690	2.0600e-003		61.1205
Total	**0.0401**	**0.4529**	**0.3456**	**1.8300e-003**	**0.0962**	**1.4000e-003**	**0.0976**	**0.0261**	**1.3300e-003**	**0.0275**		**189.9525**	**189.9525**	**6.5800e-003**		**190.1169**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1041	9.3811	14.0165	0.0227		0.4740	0.4740		0.4572	0.4572	0.0000	2,165.4132	2,165.4132	0.3649		2,174.5347
Total	**1.1041**	**9.3811**	**14.0165**	**0.0227**		**0.4740**	**0.4740**		**0.4572**	**0.4572**	**0.0000**	**2,165.4132**	**2,165.4132**	**0.3649**		**2,174.5347**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1000e-003	0.0453	0.0123	1.6000e-004	3.4600e-003	1.3000e-004	3.6000e-003	9.5000e-004	1.3000e-004	1.0800e-003		16.6237	16.6237	6.4000e-004		16.6397
Vendor	0.0101	0.3866	0.1013	1.0600e-003	0.0270	7.7000e-004	0.0277	7.7600e-003	7.4000e-004	8.4900e-003		112.2598	112.2598	3.8800e-003		112.3567
Worker	0.0289	0.0210	0.2319	6.1000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		61.0690	61.0690	2.0600e-003		61.1205
Total	**0.0401**	**0.4529**	**0.3456**	**1.8300e-003**	**0.0962**	**1.4000e-003**	**0.0976**	**0.0261**	**1.3300e-003**	**0.0275**		**189.9525**	**189.9525**	**6.5800e-003**		**190.1169**

3.8 Wellhead piping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561		1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**		**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0289	0.0210	0.2319	6.1000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		61.0690	61.0690	2.0600e-003		61.1205
Total	**0.0340**	**0.2143**	**0.2826**	**1.1400e-003**	**0.0792**	**8.9000e-004**	**0.0801**	**0.0213**	**8.3000e-004**	**0.0221**		**117.1989**	**117.1989**	**4.0000e-003**		**117.2989**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561	0.0000	1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**	**0.0000**	**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0289	0.0210	0.2319	6.1000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		61.0690	61.0690	2.0600e-003		61.1205
Total	**0.0340**	**0.2143**	**0.2826**	**1.1400e-003**	**0.0792**	**8.9000e-004**	**0.0801**	**0.0213**	**8.3000e-004**	**0.0221**		**117.1989**	**117.1989**	**4.0000e-003**		**117.2989**

3.9 Facility startup and testing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561		1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**		**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0217	0.0157	0.1740	4.6000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		45.8018	45.8018	1.5500e-003		45.8404
Total	**0.0267**	**0.2090**	**0.2246**	**9.9000e-004**	**0.0628**	**7.7000e-004**	**0.0635**	**0.0170**	**7.2000e-004**	**0.0177**		**101.9316**	**101.9316**	**3.4900e-003**		**102.0187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561	0.0000	1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**	**0.0000**	**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0217	0.0157	0.1740	4.6000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		45.8018	45.8018	1.5500e-003		45.8404
Total	**0.0267**	**0.2090**	**0.2246**	**9.9000e-004**	**0.0628**	**7.7000e-004**	**0.0635**	**0.0170**	**7.2000e-004**	**0.0177**		**101.9316**	**101.9316**	**3.4900e-003**		**102.0187**

3.10 Final paving and demobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8392	8.4867	10.1707	0.0163		0.4182	0.4182		0.3847	0.3847		1,582.4895	1,582.4895	0.5118		1,595.2847
Total	**0.8392**	**8.4867**	**10.1707**	**0.0163**		**0.4182**	**0.4182**		**0.3847**	**0.3847**		**1,582.4895**	**1,582.4895**	**0.5118**		**1,595.2847**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0217	0.0157	0.1740	4.6000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		45.8018	45.8018	1.5500e-003		45.8404
Total	**0.0267**	**0.2090**	**0.2246**	**9.9000e-004**	**0.0628**	**7.7000e-004**	**0.0635**	**0.0170**	**7.2000e-004**	**0.0177**		**101.9316**	**101.9316**	**3.4900e-003**		**102.0187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8392	8.4867	10.1707	0.0163		0.4182	0.4182		0.3847	0.3847	0.0000	1,582.4895	1,582.4895	0.5118		1,595.2847
Total	**0.8392**	**8.4867**	**10.1707**	**0.0163**		**0.4182**	**0.4182**		**0.3847**	**0.3847**	**0.0000**	**1,582.4895**	**1,582.4895**	**0.5118**		**1,595.2847**

Mitigated Construction Off-Site

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

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0217	0.0157	0.1740	4.6000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		45.8018	45.8018	1.5500e-003		45.8404
Total	**0.0267**	**0.2090**	**0.2246**	**9.9000e-004**	**0.0628**	**7.7000e-004**	**0.0635**	**0.0170**	**7.2000e-004**	**0.0177**		**101.9316**	**101.9316**	**3.4900e-003**		**102.0187**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981
Other Asphalt Surfaces	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3300e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.1000e-004	1.1000e-004	0.0000		1.2000e-004
Unmitigated	2.3300e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.1000e-004	1.1000e-004	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	lb/day										lb/day					
Architectural Coating	5.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2800e-003					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		1.1000e-004	1.1000e-004	0.0000		1.2000e-004
Total	**2.3300e-003**	**0.0000**	**5.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**1.1000e-004**	**1.1000e-004**	**0.0000**		**1.2000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2800e-003					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		1.1000e-004	1.1000e-004	0.0000		1.2000e-004
Total	**2.3300e-003**	**0.0000**	**5.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**1.1000e-004**	**1.1000e-004**	**0.0000**		**1.2000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Beltz 9 Construction

Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.10	1000sqft	0.00	100.00	0
Other Asphalt Surfaces	0.40	1000sqft	0.01	396.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Beltz 9 Construction

Land Use - Surrogate land uses for monitoring well, pipeline and pavement

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 26 CY of material assumed to be exported and 0.02 acres total disturbed area

Architectural Coating - Default coating EF

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	50	0
tblAreaCoating	Area_Nonresidential_Interior	150	0
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	3.00
tblConstructionPhase	NumDays	100.00	2.00
tblConstructionPhase	PhaseEndDate	5/3/2021	1/13/2023
tblConstructionPhase	PhaseEndDate	2/9/2022	2/3/2023
tblConstructionPhase	PhaseEndDate	11/16/2022	2/10/2023
tblConstructionPhase	PhaseEndDate	4/5/2023	2/17/2023
tblConstructionPhase	PhaseStartDate	5/3/2021	1/9/2023
tblConstructionPhase	PhaseStartDate	9/23/2021	1/30/2023
tblConstructionPhase	PhaseStartDate	6/30/2022	2/6/2023
tblConstructionPhase	PhaseStartDate	11/17/2022	2/13/2023
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	2.50	0.01

tblGrading	AcresOfGrading	2.50	0.01
tblGrading	MaterialExported	0.00	14.00
tblGrading	MaterialExported	0.00	12.00
tblLandUse	LandUseSquareFeet	400.00	396.00
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site prep and conductor casing install
tblOffRoadEquipment	PhaseName		Well drilling and construction
tblOffRoadEquipment	PhaseName		Well drilling and construction
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Injection line and conduit
tblOffRoadEquipment	PhaseName		Wellhead piping
tblOffRoadEquipment	PhaseName		Facility startup and testing
tblOffRoadEquipment	PhaseName		Final paving and demobilization

tblOffRoadEquipment	PhaseName		Final paving and demobilization
tblOffRoadEquipment	PhaseName		Final paving and demobilization
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblSolidWaste	SolidWasteGenerationRate	0.12	0.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00

tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	13.00	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	23,125.00	0.00

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					
2021	2.9132	28.3274	28.1082	0.0634	0.1420	1.3960	1.4821	0.0383	1.3270	1.3502	0.0000	6,104.9794	6,104.9794	1.4287	0.0000	6,140.6978
2023	1.4416	15.1095	14.6176	0.0281	0.1443	0.4755	0.7907	0.0385	0.4585	0.6333	0.0000	2,736.5925	2,736.5925	0.8242	0.0000	2,757.1981
Maximum	**2.9132**	**28.3274**	**28.1082**	**0.0634**	**0.1443**	**1.3960**	**1.4821**	**0.0385**	**1.3270**	**1.3502**	**0.0000**	**6,104.9794**	**6,104.9794**	**1.4287**	**0.0000**	**6,140.6978**

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					

2021	2.9132	28.3274	28.1082	0.0634	0.1420	1.3960	1.4821	0.0383	1.3270	1.3502	0.0000	6,104.9794	6,104.9794	1.4287	0.0000	6,140.6978
2023	1.4416	15.1095	14.6176	0.0281	0.1430	0.4755	0.7894	0.0384	0.4585	0.6331	0.0000	2,736.5925	2,736.5925	0.8242	0.0000	2,757.1981
Maximum	**2.9132**	**28.3274**	**28.1082**	**0.0634**	**0.1430**	**1.3960**	**1.4821**	**0.0384**	**1.3270**	**1.3502**	**0.0000**	**6,104.9794**	**6,104.9794**	**1.4287**	**0.0000**	**6,140.6978**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.45**	**0.00**	**0.06**	**0.20**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	2.3300e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.1000e-004	1.1000e-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
Total	**2.3300e-003**	**0.0000**	**5.0000e-005**	**0.0000**	**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**

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	2.3300e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.1000e-004	1.1000e-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
Total	**2.3300e-003**	**0.0000**	**5.0000e-005**	**0.0000**	**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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site prep and conductor casing install	Site Preparation	5/3/2021	5/7/2021	5	5	
2	Well drilling and construction	Building Construction	5/10/2021	5/14/2021	5	5	
3	Monitoring well development	Building Construction	5/17/2021	5/19/2021	5	3	
4	Site cleanup	Building Construction	5/19/2021	5/20/2021	5	2	
5	Mobilization	Site Preparation	1/9/2023	1/13/2023	5	5	
6	Injection line and conduit	Trenching	1/16/2023	1/27/2023	5	10	
7	Wellhead piping	Building Construction	1/30/2023	2/3/2023	5	5	
8	Facility startup and testing	Building Construction	2/6/2023	2/10/2023	5	5	
9	Final paving and demobilization	Building Construction	2/13/2023	2/17/2023	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Well drilling and construction	Cranes	0	0.00	231	0.29

Monitoring well development	Cranes	0	0.00	231	0.29
Site cleanup	Cranes	1	4.00	231	0.29
Well drilling and construction	Forklifts	1	24.00	89	0.20
Monitoring well development	Forklifts	1	8.00	89	0.20
Site cleanup	Forklifts	1	8.00	89	0.20
Site prep and conductor casing install	Graders	1	8.00	187	0.41
Well drilling and construction	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Monitoring well development	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site cleanup	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site prep and conductor casing install	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site prep and conductor casing install	Bore/Drill Rigs	1	8.00	221	0.50
Well drilling and construction	Bore/Drill Rigs	1	24.00	221	0.50
Wellhead piping	Cranes	1	4.00	231	0.29
Wellhead piping	Forklifts	1	8.00	89	0.20
Well drilling and construction	Pumps	1	24.00	84	0.74
Wellhead piping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Monitoring well development	Air Compressors	1	8.00	78	0.48
Monitoring well development	Bore/Drill Rigs	1	8.00	221	0.50
Monitoring well development	Generator Sets	1	8.00	84	0.74
Injection line and conduit	Concrete/Industrial Saws	1	8.00	81	0.73
Injection line and conduit	Excavators	1	8.00	158	0.38
Facility startup and testing	Cranes	1	4.00	231	0.29
Facility startup and testing	Forklifts	1	8.00	89	0.20
Facility startup and testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Final paving and demobilization	Cranes	1	4.00	231	0.29
Final paving and demobilization	Forklifts	1	8.00	89	0.20
Injection line and conduit	Forklifts	1	8.00	89	0.20
Injection line and conduit	Pumps	1	8.00	84	0.74
Injection line and conduit	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Final paving and demobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Wellhead piping	Generator Sets	1	8.00	84	0.74

Facility startup and testing	Generator Sets	1	8.00	84	0.74
Final paving and demobilization	Pavers	1	4.00	130	0.42
Final paving and demobilization	Paving Equipment	1	4.00	132	0.36
Final paving and demobilization	Rollers	1	4.00	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
Mobilization	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well drilling and construction	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Monitoring well development	4	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site cleanup	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site prep and conductor casing install	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead piping	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Injection line and conduit	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	3	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Final paving and demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site prep and conductor casing install - 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					2.3300e-003	0.0000	2.3300e-003	2.6000e-004	0.0000	2.6000e-004			0.0000			0.0000
Off-Road	0.8984	10.8432	6.1014	0.0192		0.3911	0.3911		0.3598	0.3598		1,854.6466	1,854.6466	0.5998		1,869.6424

Total	**0.8984**	**10.8432**	**6.1014**	**0.0192**	**2.3300e-003**	**0.3911**	**0.3934**	**2.6000e-004**	**0.3598**	**0.3601**		**1,854.6466**	**1,854.6466**	**0.5998**		**1,869.6424**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.3400e-003	0.2441	0.0700	5.3000e-004	0.0135	8.1000e-004	0.0143	3.8800e-003	7.7000e-004	4.6500e-003		56.3375	56.3375	2.3500e-003		56.3962
Worker	0.0372	0.0324	0.2808	6.3000e-004	0.0657	5.4000e-004	0.0663	0.0174	5.0000e-004	0.0179		62.5581	62.5581	2.5000e-003		62.6205
Total	**0.0446**	**0.2765**	**0.3508**	**1.1600e-003**	**0.0792**	**1.3500e-003**	**0.0805**	**0.0213**	**1.2700e-003**	**0.0226**		**118.8955**	**118.8955**	**4.8500e-003**		**119.0167**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0500e-003	0.0000	1.0500e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	0.8984	10.8432	6.1014	0.0192		0.3911	0.3911		0.3598	0.3598	0.0000	1,854.6466	1,854.6466	0.5998		1,869.6424
Total	**0.8984**	**10.8432**	**6.1014**	**0.0192**	**1.0500e-003**	**0.3911**	**0.3922**	**1.2000e-004**	**0.3598**	**0.3599**	**0.0000**	**1,854.6466**	**1,854.6466**	**0.5998**		**1,869.6424**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.3400e-003	0.2441	0.0700	5.3000e-004	0.0135	8.1000e-004	0.0143	3.8800e-003	7.7000e-004	4.6500e-003		56.3375	56.3375	2.3500e-003		56.3962
Worker	0.0372	0.0324	0.2808	6.3000e-004	0.0657	5.4000e-004	0.0663	0.0174	5.0000e-004	0.0179		62.5581	62.5581	2.5000e-003		62.6205
Total	**0.0446**	**0.2765**	**0.3508**	**1.1600e-003**	**0.0792**	**1.3500e-003**	**0.0805**	**0.0213**	**1.2700e-003**	**0.0226**		**118.8955**	**118.8955**	**4.8500e-003**		**119.0167**

3.3 Well drilling and 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	2.8656	27.9231	27.7280	0.0619		1.3941	1.3941		1.3252	1.3252		5,952.0869	5,952.0869	1.4225		5,987.6488
Total	**2.8656**	**27.9231**	**27.7280**	**0.0619**		**1.3941**	**1.3941**		**1.3252**	**1.3252**		**5,952.0869**	**5,952.0869**	**1.4225**		**5,987.6488**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1100e-003	0.1277	0.0294	3.2000e-004	6.9300e-003	5.1000e-004	7.4400e-003	1.8900e-003	4.9000e-004	2.3800e-003		33.9969	33.9969	1.4100e-003		34.0322
Vendor	7.3400e-003	0.2441	0.0700	5.3000e-004	0.0135	8.1000e-004	0.0143	3.8800e-003	7.7000e-004	4.6500e-003		56.3375	56.3375	2.3500e-003		56.3962

Worker	0.0372	0.0324	0.2808	6.3000e-004	0.0657	5.4000e-004	0.0663	0.0174	5.0000e-004	0.0179		62.5581	62.5581	2.5000e-003		62.6205
Total	**0.0477**	**0.4042**	**0.3802**	**1.4800e-003**	**0.0861**	**1.8600e-003**	**0.0880**	**0.0232**	**1.7600e-003**	**0.0250**		**152.8924**	**152.8924**	**6.2600e-003**		**153.0489**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.8656	27.9231	27.7280	0.0619		1.3941	1.3941		1.3252	1.3252	0.0000	5,952.0869	5,952.0869	1.4225		5,987.6488
Total	**2.8656**	**27.9231**	**27.7280**	**0.0619**		**1.3941**	**1.3941**		**1.3252**	**1.3252**	**0.0000**	**5,952.0869**	**5,952.0869**	**1.4225**		**5,987.6488**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1100e-003	0.1277	0.0294	3.2000e-004	6.9300e-003	5.1000e-004	7.4400e-003	1.8900e-003	4.9000e-004	2.3800e-003		33.9969	33.9969	1.4100e-003		34.0322
Vendor	7.3400e-003	0.2441	0.0700	5.3000e-004	0.0135	8.1000e-004	0.0143	3.8800e-003	7.7000e-004	4.6500e-003		56.3375	56.3375	2.3500e-003		56.3962
Worker	0.0372	0.0324	0.2808	6.3000e-004	0.0657	5.4000e-004	0.0663	0.0174	5.0000e-004	0.0179		62.5581	62.5581	2.5000e-003		62.6205
Total	**0.0477**	**0.4042**	**0.3802**	**1.4800e-003**	**0.0861**	**1.8600e-003**	**0.0880**	**0.0232**	**1.7600e-003**	**0.0250**		**152.8924**	**152.8924**	**6.2600e-003**		**153.0489**

3.4 Monitoring well development - 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	1.0368	9.4039	9.3499	0.0215		0.4685	0.4685		0.4545	0.4545		2,058.3919	2,058.3919	0.4004		2,068.4019
Total	**1.0368**	**9.4039**	**9.3499**	**0.0215**		**0.4685**	**0.4685**		**0.4545**	**0.4545**		**2,058.3919**	**2,058.3919**	**0.4004**		**2,068.4019**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.3400e-003	0.2441	0.0700	5.3000e-004	0.0135	8.1000e-004	0.0143	3.8800e-003	7.7000e-004	4.6500e-003		56.3375	56.3375	2.3500e-003		56.3962
Worker	0.0372	0.0324	0.2808	6.3000e-004	0.0657	5.4000e-004	0.0663	0.0174	5.0000e-004	0.0179		62.5581	62.5581	2.5000e-003		62.6205
Total	**0.0446**	**0.2765**	**0.3508**	**1.1600e-003**	**0.0792**	**1.3500e-003**	**0.0805**	**0.0213**	**1.2700e-003**	**0.0226**		**118.8955**	**118.8955**	**4.8500e-003**		**119.0167**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0368	9.4039	9.3499	0.0215		0.4685	0.4685		0.4545	0.4545	0.0000	2,058.3919	2,058.3919	0.4004		2,068.4019

Total	**1.0368**	**9.4039**	**9.3499**	**0.0215**		**0.4685**	**0.4685**		**0.4545**	**0.4545**	**0.0000**	**2,058.3919**	**2,058.3919**	**0.4004**		**2,068.4019**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.3400e-003	0.2441	0.0700	5.3000e-004	0.0135	8.1000e-004	0.0143	3.8800e-003	7.7000e-004	4.6500e-003		56.3375	56.3375	2.3500e-003		56.3962
Worker	0.0372	0.0324	0.2808	6.3000e-004	0.0657	5.4000e-004	0.0663	0.0174	5.0000e-004	0.0179		62.5581	62.5581	2.5000e-003		62.6205
Total	**0.0446**	**0.2765**	**0.3508**	**1.1600e-003**	**0.0792**	**1.3500e-003**	**0.0805**	**0.0213**	**1.2700e-003**	**0.0226**		**118.8955**	**118.8955**	**4.8500e-003**		**119.0167**

3.5 Site cleanup - 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	0.7103	7.3954	6.6798	0.0106		0.4057	0.4057		0.3732	0.3732		1,029.2004	1,029.2004	0.3329		1,037.5220
Total	**0.7103**	**7.3954**	**6.6798**	**0.0106**		**0.4057**	**0.4057**		**0.3732**	**0.3732**		**1,029.2004**	**1,029.2004**	**0.3329**		**1,037.5220**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	7.3400e-003	0.2441	0.0700	5.3000e-004	0.0135	8.1000e-004	0.0143	3.8800e-003	7.7000e-004	4.6500e-003		56.3375	56.3375	2.3500e-003		56.3962
Worker	0.0279	0.0243	0.2106	4.7000e-004	0.0493	4.0000e-004	0.0497	0.0131	3.7000e-004	0.0135		46.9185	46.9185	1.8700e-003		46.9654
Total	**0.0353**	**0.2684**	**0.2806**	**1.0000e-003**	**0.0628**	**1.2100e-003**	**0.0640**	**0.0170**	**1.1400e-003**	**0.0181**		**103.2560**	**103.2560**	**4.2200e-003**		**103.3616**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7103	7.3954	6.6798	0.0106		0.4057	0.4057		0.3732	0.3732	0.0000	1,029.2004	1,029.2004	0.3329		1,037.5220
Total	**0.7103**	**7.3954**	**6.6798**	**0.0106**		**0.4057**	**0.4057**		**0.3732**	**0.3732**	**0.0000**	**1,029.2004**	**1,029.2004**	**0.3329**		**1,037.5220**

Mitigated Construction Off-Site

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

Vendor	7.3400e-003	0.2441	0.0700	5.3000e-004	0.0135	8.1000e-004	0.0143	3.8800e-003	7.7000e-004	4.6500e-003		56.3375	56.3375	2.3500e-003		56.3962
Worker	0.0279	0.0243	0.2106	4.7000e-004	0.0493	4.0000e-004	0.0497	0.0131	3.7000e-004	0.0135		46.9185	46.9185	1.8700e-003		46.9654
Total	**0.0353**	**0.2684**	**0.2806**	**1.0000e-003**	**0.0628**	**1.2100e-003**	**0.0640**	**0.0170**	**1.1400e-003**	**0.0181**		**103.2560**	**103.2560**	**4.2200e-003**		**103.3616**

3.6 Mobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3600e-003	0.0000	2.3600e-003	2.7000e-004	0.0000	2.7000e-004			0.0000			0.0000
Off-Road	0.5348	6.1887	3.9239	9.7300e-003		0.2266	0.2266		0.2084	0.2084		942.4317	942.4317	0.3048		950.0517
Total	**0.5348**	**6.1887**	**3.9239**	**9.7300e-003**	**2.3600e-003**	**0.2266**	**0.2289**	**2.7000e-004**	**0.2084**	**0.2087**		**942.4317**	**942.4317**	**0.3048**		**950.0517**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0325	0.0261	0.2335	5.8000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		58.1867	58.1867	1.9900e-003		58.2364
Total	**0.0379**	**0.2203**	**0.2907**	**1.1000e-003**	**0.0792**	**9.1000e-004**	**0.0801**	**0.0213**	**8.5000e-004**	**0.0222**		**113.1090**	**113.1090**	**4.0600e-003**		**113.2104**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0600e-003	0.0000	1.0600e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	0.5348	6.1887	3.9239	9.7300e-003		0.2266	0.2266		0.2084	0.2084	0.0000	942.4317	942.4317	0.3048		950.0517
Total	**0.5348**	**6.1887**	**3.9239**	**9.7300e-003**	**1.0600e-003**	**0.2266**	**0.2276**	**1.2000e-004**	**0.2084**	**0.2086**	**0.0000**	**942.4317**	**942.4317**	**0.3048**		**950.0517**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0325	0.0261	0.2335	5.8000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		58.1867	58.1867	1.9900e-003		58.2364
Total	**0.0379**	**0.2203**	**0.2907**	**1.1000e-003**	**0.0792**	**9.1000e-004**	**0.0801**	**0.0213**	**8.5000e-004**	**0.0222**		**113.1090**	**113.1090**	**4.0600e-003**		**113.2104**

3.7 Injection line and conduit - 2023

Unmitigated Construction On-Site

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

Off-Road	1.1041	9.3811	14.0165	0.0227		0.4740	0.4740		0.4572	0.4572		2,165.4132	2,165.4132	0.3649		2,174.5347
Total	**1.1041**	**9.3811**	**14.0165**	**0.0227**		**0.4740**	**0.4740**		**0.4572**	**0.4572**		**2,165.4132**	**2,165.4132**	**0.3649**		**2,174.5347**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1300e-003	0.0461	0.0129	1.5000e-004	3.4600e-003	1.4000e-004	3.6000e-003	9.5000e-004	1.3000e-004	1.0800e-003		16.3928	16.3928	6.6000e-004		16.4093
Vendor	0.0108	0.3884	0.1145	1.0400e-003	0.0270	8.2000e-004	0.0278	7.7600e-003	7.8000e-004	8.5400e-003		109.8447	109.8447	4.1300e-003		109.9480
Worker	0.0325	0.0261	0.2335	5.8000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		58.1867	58.1867	1.9900e-003		58.2364
Total	**0.0444**	**0.4606**	**0.3609**	**1.7700e-003**	**0.0962**	**1.4600e-003**	**0.0976**	**0.0261**	**1.3700e-003**	**0.0275**		**184.4241**	**184.4241**	**6.7800e-003**		**184.5937**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1041	9.3811	14.0165	0.0227		0.4740	0.4740		0.4572	0.4572	0.0000	2,165.4132	2,165.4132	0.3649		2,174.5347
Total	**1.1041**	**9.3811**	**14.0165**	**0.0227**		**0.4740**	**0.4740**		**0.4572**	**0.4572**	**0.0000**	**2,165.4132**	**2,165.4132**	**0.3649**		**2,174.5347**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1300e-003	0.0461	0.0129	1.5000e-004	3.4600e-003	1.4000e-004	3.6000e-003	9.5000e-004	1.3000e-004	1.0800e-003		16.3928	16.3928	6.6000e-004		16.4093
Vendor	0.0108	0.3884	0.1145	1.0400e-003	0.0270	8.2000e-004	0.0278	7.7600e-003	7.8000e-004	8.5400e-003		109.8447	109.8447	4.1300e-003		109.9480
Worker	0.0325	0.0261	0.2335	5.8000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		58.1867	58.1867	1.9900e-003		58.2364
Total	**0.0444**	**0.4606**	**0.3609**	**1.7700e-003**	**0.0962**	**1.4600e-003**	**0.0976**	**0.0261**	**1.3700e-003**	**0.0275**		**184.4241**	**184.4241**	**6.7800e-003**		**184.5937**

3.8 Wellhead piping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561		1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**		**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0325	0.0261	0.2335	5.8000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		58.1867	58.1867	1.9900e-003		58.2364
Total	**0.0379**	**0.2203**	**0.2907**	**1.1000e-003**	**0.0792**	**9.1000e-004**	**0.0801**	**0.0213**	**8.5000e-004**	**0.0222**		**113.1090**	**113.1090**	**4.0600e-003**		**113.2104**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561	0.0000	1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**	**0.0000**	**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0325	0.0261	0.2335	5.8000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		58.1867	58.1867	1.9900e-003		58.2364
Total	**0.0379**	**0.2203**	**0.2907**	**1.1000e-003**	**0.0792**	**9.1000e-004**	**0.0801**	**0.0213**	**8.5000e-004**	**0.0222**		**113.1090**	**113.1090**	**4.0600e-003**		**113.2104**

3.9 Facility startup and testing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561		1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**		**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0244	0.0196	0.1751	4.4000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		43.6400	43.6400	1.4900e-003		43.6773
Total	**0.0298**	**0.2138**	**0.2323**	**9.6000e-004**	**0.0628**	**7.9000e-004**	**0.0636**	**0.0170**	**7.4000e-004**	**0.0177**		**98.5623**	**98.5623**	**3.5600e-003**		**98.6513**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561	0.0000	1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**	**0.0000**	**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0244	0.0196	0.1751	4.4000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		43.6400	43.6400	1.4900e-003		43.6773
Total	**0.0298**	**0.2138**	**0.2323**	**9.6000e-004**	**0.0628**	**7.9000e-004**	**0.0636**	**0.0170**	**7.4000e-004**	**0.0177**		**98.5623**	**98.5623**	**3.5600e-003**		**98.6513**

3.10 Final paving and demobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8392	8.4867	10.1707	0.0163		0.4182	0.4182		0.3847	0.3847		1,582.4895	1,582.4895	0.5118		1,595.2847
Total	**0.8392**	**8.4867**	**10.1707**	**0.0163**		**0.4182**	**0.4182**		**0.3847**	**0.3847**		**1,582.4895**	**1,582.4895**	**0.5118**		**1,595.2847**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0244	0.0196	0.1751	4.4000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		43.6400	43.6400	1.4900e-003		43.6773
Total	**0.0298**	**0.2138**	**0.2323**	**9.6000e-004**	**0.0628**	**7.9000e-004**	**0.0636**	**0.0170**	**7.4000e-004**	**0.0177**		**98.5623**	**98.5623**	**3.5600e-003**		**98.6513**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8392	8.4867	10.1707	0.0163		0.4182	0.4182		0.3847	0.3847	0.0000	1,582.4895	1,582.4895	0.5118		1,595.2847
Total	**0.8392**	**8.4867**	**10.1707**	**0.0163**		**0.4182**	**0.4182**		**0.3847**	**0.3847**	**0.0000**	**1,582.4895**	**1,582.4895**	**0.5118**		**1,595.2847**

Mitigated Construction Off-Site

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

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0244	0.0196	0.1751	4.4000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		43.6400	43.6400	1.4900e-003		43.6773
Total	**0.0298**	**0.2138**	**0.2323**	**9.6000e-004**	**0.0628**	**7.9000e-004**	**0.0636**	**0.0170**	**7.4000e-004**	**0.0177**		**98.5623**	**98.5623**	**3.5600e-003**		**98.6513**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981
Other Asphalt Surfaces	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3300e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.1000e-004	1.1000e-004	0.0000		1.2000e-004
Unmitigated	2.3300e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.1000e-004	1.1000e-004	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	lb/day										lb/day					
Architectural Coating	5.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2800e-003					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		1.1000e-004	1.1000e-004	0.0000		1.2000e-004
Total	**2.3300e-003**	**0.0000**	**5.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**1.1000e-004**	**1.1000e-004**	**0.0000**		**1.2000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2800e-003					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		1.1000e-004	1.1000e-004	0.0000		1.2000e-004
Total	**2.3300e-003**	**0.0000**	**5.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**1.1000e-004**	**1.1000e-004**	**0.0000**		**1.2000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Beltz 10 Construction

Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	0.37	1000sqft	0.01	373.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Beltz 10 Construction

Land Use - Surrogate land uses for pipeline and pavement

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 13 CY of material assumed to be exported and 0.01 acres total assumed to be disturbed

Architectural Coating - Default

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	PhaseEndDate	2/20/2023	2/24/2023
tblConstructionPhase	PhaseEndDate	11/29/2023	3/17/2023
tblConstructionPhase	PhaseEndDate	9/4/2024	3/24/2023
tblConstructionPhase	PhaseEndDate	1/22/2025	3/31/2023
tblConstructionPhase	PhaseStartDate	7/13/2023	3/13/2023
tblConstructionPhase	PhaseStartDate	4/18/2024	3/20/2023
tblConstructionPhase	PhaseStartDate	9/5/2024	3/27/2023
tblGrading	AcresOfGrading	2.50	0.01
tblGrading	MaterialExported	0.00	13.00
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment

tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00

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					
2023	0.0124	0.1159	0.1381	2.5000e-004	1.1600e-003	5.3300e-003	6.4800e-003	3.1000e-004	5.0600e-003	5.3700e-003	0.0000	22.1086	22.1086	4.3200e-003	0.0000	22.2166
Maximum	**0.0124**	**0.1159**	**0.1381**	**2.5000e-004**	**1.1600e-003**	**5.3300e-003**	**6.4800e-003**	**3.1000e-004**	**5.0600e-003**	**5.3700e-003**	**0.0000**	**22.1086**	**22.1086**	**4.3200e-003**	**0.0000**	**22.2166**

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					
2023	0.0124	0.1159	0.1381	2.5000e-004	1.1500e-003	5.3300e-003	6.4800e-003	3.1000e-004	5.0600e-003	5.3700e-003	0.0000	22.1086	22.1086	4.3200e-003	0.0000	22.2166
Maximum	**0.0124**	**0.1159**	**0.1381**	**2.5000e-004**	**1.1500e-003**	**5.3300e-003**	**6.4800e-003**	**3.1000e-004**	**5.0600e-003**	**5.3700e-003**	**0.0000**	**22.1086**	**22.1086**	**4.3200e-003**	**0.0000**	**22.2166**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.86**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**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	2-20-2023	5-19-2023	0.0995	0.0995
		Highest	0.0995	0.0995

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	3.0000e-005	0.0000	0.0000	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
Total	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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**

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	3.0000e-005	0.0000	0.0000	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
Total	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Mobilization	Site Preparation	2/20/2023	2/24/2023	5	5	
2	Injection line and conduit	Trenching	2/27/2023	3/10/2023	5	10	
3	Wellhead piping	Building Construction	3/13/2023	3/17/2023	5	5	
4	Facility startup and testing	Building Construction	3/20/2023	3/24/2023	5	5	
5	Final paving and demobilization	Building Construction	3/27/2023	3/31/2023	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Injection line and conduit	Concrete/Industrial Saws	1	8.00	81	0.73
Injection line and conduit	Excavators	1	8.00	158	0.38
Injection line and conduit	Forklifts	1	8.00	89	0.20
Injection line and conduit	Pumps	1	8.00	84	0.74
Injection line and conduit	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Wellhead piping	Generator Sets	1	8.00	84	0.74
Facility startup and testing	Generator Sets	1	8.00	84	0.74
Final paving and demobilization	Pavers	1	4.00	130	0.42
Final paving and demobilization	Paving Equipment	1	4.00	132	0.36
Final paving and demobilization	Rollers	1	4.00	80	0.38
Wellhead piping	Cranes	1	4.00	231	0.29
Wellhead piping	Forklifts	1	8.00	89	0.20
Wellhead piping	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Facility startup and testing	Cranes	1	4.00	231	0.29
Facility startup and testing	Forklifts	1	8.00	89	0.20
Facility startup and testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Final paving and demobilization	Cranes	1	4.00	231	0.29
Final paving and demobilization	Forklifts	1	8.00	89	0.20
Final paving and demobilization	Tractors/Loaders/Backhoes	2	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
Mobilization	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Injection line and conduit	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead piping	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	3	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Final paving and demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Mobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3400e-003	0.0155	9.8100e-003	2.0000e-005		5.7000e-004	5.7000e-004		5.2000e-004	5.2000e-004	0.0000	2.1374	2.1374	6.9000e-004	0.0000	2.1547
Total	**1.3400e-003**	**0.0155**	**9.8100e-003**	**2.0000e-005**	**1.0000e-005**	**5.7000e-004**	**5.8000e-004**	**0.0000**	**5.2000e-004**	**5.2000e-004**	**0.0000**	**2.1374**	**2.1374**	**6.9000e-004**	**0.0000**	**2.1547**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	7.0000e-005	6.0000e-005	5.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1321	0.1321	0.0000	0.0000	0.1322
Total	**8.0000e-005**	**5.5000e-004**	**6.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2582**	**0.2582**	**0.0000**	**0.0000**	**0.2585**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3400e-003	0.0155	9.8100e-003	2.0000e-005		5.7000e-004	5.7000e-004		5.2000e-004	5.2000e-004	0.0000	2.1374	2.1374	6.9000e-004	0.0000	2.1547
Total	**1.3400e-003**	**0.0155**	**9.8100e-003**	**2.0000e-005**	**0.0000**	**5.7000e-004**	**5.7000e-004**	**0.0000**	**5.2000e-004**	**5.2000e-004**	**0.0000**	**2.1374**	**2.1374**	**6.9000e-004**	**0.0000**	**2.1547**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	7.0000e-005	6.0000e-005	5.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1321	0.1321	0.0000	0.0000	0.1322
Total	**8.0000e-005**	**5.5000e-004**	**6.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2582**	**0.2582**	**0.0000**	**0.0000**	**0.2585**

3.3 Injection line and conduit - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5200e-003	0.0469	0.0701	1.1000e-004		2.3700e-003	2.3700e-003		2.2900e-003	2.2900e-003	0.0000	9.8222	9.8222	1.6500e-003	0.0000	9.8635
Total	**5.5200e-003**	**0.0469**	**0.0701**	**1.1000e-004**		**2.3700e-003**	**2.3700e-003**		**2.2900e-003**	**2.2900e-003**	**0.0000**	**9.8222**	**9.8222**	**1.6500e-003**	**0.0000**	**9.8635**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.3000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0750	0.0750	0.0000	0.0000	0.0750
Vendor	5.0000e-005	1.9500e-003	5.4000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5046	0.5046	2.0000e-005	0.0000	0.5051
Worker	1.5000e-004	1.2000e-004	1.1200e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2642	0.2642	1.0000e-005	0.0000	0.2644

Total	**2.1000e-004**	**2.3000e-003**	**1.7200e-003**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**4.7000e-004**	**1.2000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.8437**	**0.8437**	**3.0000e-005**	**0.0000**	**0.8445**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.5200e-003	0.0469	0.0701	1.1000e-004		2.3700e-003	2.3700e-003		2.2900e-003	2.2900e-003	0.0000	9.8221	9.8221	1.6500e-003	0.0000	9.8635
Total	**5.5200e-003**	**0.0469**	**0.0701**	**1.1000e-004**		**2.3700e-003**	**2.3700e-003**		**2.2900e-003**	**2.2900e-003**	**0.0000**	**9.8221**	**9.8221**	**1.6500e-003**	**0.0000**	**9.8635**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.3000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0750	0.0750	0.0000	0.0000	0.0750
Vendor	5.0000e-005	1.9500e-003	5.4000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5046	0.5046	2.0000e-005	0.0000	0.5051
Worker	1.5000e-004	1.2000e-004	1.1200e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2642	0.2642	1.0000e-005	0.0000	0.2644
Total	**2.1000e-004**	**2.3000e-003**	**1.7200e-003**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**4.7000e-004**	**1.2000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.8437**	**0.8437**	**3.0000e-005**	**0.0000**	**0.8445**

3.4 Wellhead piping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4600e-003	0.0140	0.0143	3.0000e-005		6.7000e-004	6.7000e-004		6.4000e-004	6.4000e-004	0.0000	2.3824	2.3824	3.8000e-004	0.0000	2.3918
Total	**1.4600e-003**	**0.0140**	**0.0143**	**3.0000e-005**		**6.7000e-004**	**6.7000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.3824**	**2.3824**	**3.8000e-004**	**0.0000**	**2.3918**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	7.0000e-005	6.0000e-005	5.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1321	0.1321	0.0000	0.0000	0.1322
Total	**8.0000e-005**	**5.5000e-004**	**6.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2582**	**0.2582**	**0.0000**	**0.0000**	**0.2585**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4600e-003	0.0140	0.0143	3.0000e-005		6.7000e-004	6.7000e-004		6.4000e-004	6.4000e-004	0.0000	2.3824	2.3824	3.8000e-004	0.0000	2.3918
Total	**1.4600e-003**	**0.0140**	**0.0143**	**3.0000e-005**		**6.7000e-004**	**6.7000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.3824**	**2.3824**	**3.8000e-004**	**0.0000**	**2.3918**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	7.0000e-005	6.0000e-005	5.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1321	0.1321	0.0000	0.0000	0.1322
Total	**8.0000e-005**	**5.5000e-004**	**6.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2582**	**0.2582**	**0.0000**	**0.0000**	**0.2585**

3.5 Facility startup and testing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4600e-003	0.0140	0.0143	3.0000e-005		6.7000e-004	6.7000e-004		6.4000e-004	6.4000e-004	0.0000	2.3824	2.3824	3.8000e-004	0.0000	2.3918
Total	**1.4600e-003**	**0.0140**	**0.0143**	**3.0000e-005**		**6.7000e-004**	**6.7000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.3824**	**2.3824**	**3.8000e-004**	**0.0000**	**2.3918**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	5.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0991	0.0991	0.0000	0.0000	0.0991
Total	**6.0000e-005**	**5.3000e-004**	**5.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2252**	**0.2252**	**0.0000**	**0.0000**	**0.2254**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4600e-003	0.0140	0.0143	3.0000e-005		6.7000e-004	6.7000e-004		6.4000e-004	6.4000e-004	0.0000	2.3824	2.3824	3.8000e-004	0.0000	2.3918
Total	**1.4600e-003**	**0.0140**	**0.0143**	**3.0000e-005**		**6.7000e-004**	**6.7000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.3824**	**2.3824**	**3.8000e-004**	**0.0000**	**2.3918**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263

Worker	5.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0991	0.0991	0.0000	0.0000	0.0991
Total	**6.0000e-005**	**5.3000e-004**	**5.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2252**	**0.2252**	**0.0000**	**0.0000**	**0.2254**

3.6 Final paving and demobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0900e-003	0.0211	0.0253	4.0000e-005		1.0400e-003	1.0400e-003		9.6000e-004	9.6000e-004	0.0000	3.5736	3.5736	1.1600e-003	0.0000	3.6025
Total	**2.0900e-003**	**0.0211**	**0.0253**	**4.0000e-005**		**1.0400e-003**	**1.0400e-003**		**9.6000e-004**	**9.6000e-004**	**0.0000**	**3.5736**	**3.5736**	**1.1600e-003**	**0.0000**	**3.6025**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	5.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0991	0.0991	0.0000	0.0000	0.0991
Total	**6.0000e-005**	**5.3000e-004**	**5.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2252**	**0.2252**	**0.0000**	**0.0000**	**0.2254**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0900e-003	0.0211	0.0253	4.0000e-005		1.0400e-003	1.0400e-003		9.6000e-004	9.6000e-004	0.0000	3.5736	3.5736	1.1600e-003	0.0000	3.6025
Total	**2.0900e-003**	**0.0211**	**0.0253**	**4.0000e-005**		**1.0400e-003**	**1.0400e-003**		**9.6000e-004**	**9.6000e-004**	**0.0000**	**3.5736**	**3.5736**	**1.1600e-003**	**0.0000**	**3.6025**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.9000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1262	0.1262	0.0000	0.0000	0.1263
Worker	5.0000e-005	4.0000e-005	4.2000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0991	0.0991	0.0000	0.0000	0.0991
Total	**6.0000e-005**	**5.3000e-004**	**5.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2252**	**0.2252**	**0.0000**	**0.0000**	**0.2254**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981
Other Asphalt Surfaces	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0000e-005	0.0000	0.0000	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	3.0000e-005	0.0000	0.0000	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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0000e-005					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	0.0000	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
Total	**3.0000e-005**	**0.0000**	**0.0000**	**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**

Mitigated

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

SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0000e-005					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	0.0000	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
Total	**3.0000e-005**	**0.0000**	**0.0000**	**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**

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

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

Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Beltz 10 Construction
Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	0.37	1000sqft	0.01	373.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Beltz 10 Construction

Land Use - Surrogate land uses for pipeline and pavement

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 13 CY of material assumed to be exported and 0.01 acres total assumed to be disturbed

Architectural Coating - Default

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	PhaseEndDate	2/20/2023	2/24/2023
tblConstructionPhase	PhaseEndDate	11/29/2023	3/17/2023
tblConstructionPhase	PhaseEndDate	9/4/2024	3/24/2023
tblConstructionPhase	PhaseEndDate	1/22/2025	3/31/2023
tblConstructionPhase	PhaseStartDate	7/13/2023	3/13/2023
tblConstructionPhase	PhaseStartDate	4/18/2024	3/20/2023
tblConstructionPhase	PhaseStartDate	9/5/2024	3/27/2023
tblGrading	AcresOfGrading	2.50	0.01
tblGrading	MaterialExported	0.00	13.00
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment

tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00

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					
2023	1.4315	15.0673	14.5570	0.0281	0.1443	0.4755	0.7891	0.0385	0.4585	0.6318	0.0000	2,737.2693	2,737.2693	0.8219	0.0000	2,757.8168
Maximum	**1.4315**	**15.0673**	**14.5570**	**0.0281**	**0.1443**	**0.4755**	**0.7891**	**0.0385**	**0.4585**	**0.6318**	**0.0000**	**2,737.2693**	**2,737.2693**	**0.8219**	**0.0000**	**2,757.8168**

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					
2023	1.4315	15.0673	14.5570	0.0281	0.1430	0.4755	0.7878	0.0384	0.4585	0.6316	0.0000	2,737.2693	2,737.2693	0.8219	0.0000	2,757.8168
Maximum	**1.4315**	**15.0673**	**14.5570**	**0.0281**	**0.1430**	**0.4755**	**0.7878**	**0.0384**	**0.4585**	**0.6316**	**0.0000**	**2,737.2693**	**2,737.2693**	**0.8219**	**0.0000**	**2,757.8168**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.89**	**0.00**	**0.16**	**0.36**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	1.8000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-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
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
Total	**1.8000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0000**	**9.0000e-005**

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	1.8000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-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
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
Total	**1.8000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0000**	**9.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Mobilization	Site Preparation	2/20/2023	2/24/2023	5	5	
2	Injection line and conduit	Trenching	2/27/2023	3/10/2023	5	10	
3	Wellhead piping	Building Construction	3/13/2023	3/17/2023	5	5	
4	Facility startup and testing	Building Construction	3/20/2023	3/24/2023	5	5	
5	Final paving and demobilization	Building Construction	3/27/2023	3/31/2023	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Injection line and conduit	Concrete/Industrial Saws	1	8.00	81	0.73
Injection line and conduit	Excavators	1	8.00	158	0.38
Injection line and conduit	Forklifts	1	8.00	89	0.20
Injection line and conduit	Pumps	1	8.00	84	0.74
Injection line and conduit	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Wellhead piping	Generator Sets	1	8.00	84	0.74
Facility startup and testing	Generator Sets	1	8.00	84	0.74
Final paving and demobilization	Pavers	1	4.00	130	0.42
Final paving and demobilization	Paving Equipment	1	4.00	132	0.36
Final paving and demobilization	Rollers	1	4.00	80	0.38
Wellhead piping	Cranes	1	4.00	231	0.29
Wellhead piping	Forklifts	1	8.00	89	0.20
Wellhead piping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Facility startup and testing	Cranes	1	4.00	231	0.29
Facility startup and testing	Forklifts	1	8.00	89	0.20
Facility startup and testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Final paving and demobilization	Cranes	1	4.00	231	0.29
Final paving and demobilization	Forklifts	1	8.00	89	0.20
Final paving and demobilization	Tractors/Loaders/Backhoes	2	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
Mobilization	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Injection line and conduit	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead piping	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	3	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Final paving and demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Mobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3500e-003	0.0000	2.3500e-003	2.6000e-004	0.0000	2.6000e-004			0.0000			0.0000
Off-Road	0.5348	6.1887	3.9239	9.7300e-003		0.2266	0.2266		0.2084	0.2084		942.4317	942.4317	0.3048		950.0517
Total	**0.5348**	**6.1887**	**3.9239**	**9.7300e-003**	**2.3500e-003**	**0.2266**	**0.2289**	**2.6000e-004**	**0.2084**	**0.2087**		**942.4317**	**942.4317**	**0.3048**		**950.0517**

Unmitigated Construction Off-Site

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

Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0289	0.0210	0.2319	6.1000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		61.0690	61.0690	2.0600e-003		61.1205
Total	**0.0340**	**0.2143**	**0.2826**	**1.1400e-003**	**0.0792**	**8.9000e-004**	**0.0801**	**0.0213**	**8.3000e-004**	**0.0221**		**117.1989**	**117.1989**	**4.0000e-003**		**117.2989**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0600e-003	0.0000	1.0600e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	0.5348	6.1887	3.9239	9.7300e-003		0.2266	0.2266		0.2084	0.2084	0.0000	942.4317	942.4317	0.3048		950.0517
Total	**0.5348**	**6.1887**	**3.9239**	**9.7300e-003**	**1.0600e-003**	**0.2266**	**0.2276**	**1.2000e-004**	**0.2084**	**0.2086**	**0.0000**	**942.4317**	**942.4317**	**0.3048**		**950.0517**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0289	0.0210	0.2319	6.1000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		61.0690	61.0690	2.0600e-003		61.1205
Total	**0.0340**	**0.2143**	**0.2826**	**1.1400e-003**	**0.0792**	**8.9000e-004**	**0.0801**	**0.0213**	**8.3000e-004**	**0.0221**		**117.1989**	**117.1989**	**4.0000e-003**		**117.2989**

3.3 Injection line and conduit - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1041	9.3811	14.0165	0.0227		0.4740	0.4740		0.4572	0.4572		2,165.4132	2,165.4132	0.3649		2,174.5347
Total	**1.1041**	**9.3811**	**14.0165**	**0.0227**		**0.4740**	**0.4740**		**0.4572**	**0.4572**		**2,165.4132**	**2,165.4132**	**0.3649**		**2,174.5347**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1000e-003	0.0453	0.0123	1.6000e-004	3.4600e-003	1.3000e-004	3.6000e-003	9.5000e-004	1.3000e-004	1.0800e-003		16.6237	16.6237	6.4000e-004		16.6397
Vendor	0.0101	0.3866	0.1013	1.0600e-003	0.0270	7.7000e-004	0.0277	7.7600e-003	7.4000e-004	8.4900e-003		112.2598	112.2598	3.8800e-003		112.3567
Worker	0.0289	0.0210	0.2319	6.1000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		61.0690	61.0690	2.0600e-003		61.1205
Total	**0.0401**	**0.4529**	**0.3456**	**1.8300e-003**	**0.0962**	**1.4000e-003**	**0.0976**	**0.0261**	**1.3300e-003**	**0.0275**		**189.9525**	**189.9525**	**6.5800e-003**		**190.1169**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1041	9.3811	14.0165	0.0227		0.4740	0.4740		0.4572	0.4572	0.0000	2,165.4132	2,165.4132	0.3649		2,174.5347
Total	**1.1041**	**9.3811**	**14.0165**	**0.0227**		**0.4740**	**0.4740**		**0.4572**	**0.4572**	**0.0000**	**2,165.4132**	**2,165.4132**	**0.3649**		**2,174.5347**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1000e-003	0.0453	0.0123	1.6000e-004	3.4600e-003	1.3000e-004	3.6000e-003	9.5000e-004	1.3000e-004	1.0800e-003		16.6237	16.6237	6.4000e-004		16.6397
Vendor	0.0101	0.3866	0.1013	1.0600e-003	0.0270	7.7000e-004	0.0277	7.7600e-003	7.4000e-004	8.4900e-003		112.2598	112.2598	3.8800e-003		112.3567
Worker	0.0289	0.0210	0.2319	6.1000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		61.0690	61.0690	2.0600e-003		61.1205
Total	**0.0401**	**0.4529**	**0.3456**	**1.8300e-003**	**0.0962**	**1.4000e-003**	**0.0976**	**0.0261**	**1.3300e-003**	**0.0275**		**189.9525**	**189.9525**	**6.5800e-003**		**190.1169**

3.4 Wellhead piping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561		1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**		**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0289	0.0210	0.2319	6.1000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		61.0690	61.0690	2.0600e-003		61.1205
Total	**0.0340**	**0.2143**	**0.2826**	**1.1400e-003**	**0.0792**	**8.9000e-004**	**0.0801**	**0.0213**	**8.3000e-004**	**0.0221**		**117.1989**	**117.1989**	**4.0000e-003**		**117.2989**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561	0.0000	1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**	**0.0000**	**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0289	0.0210	0.2319	6.1000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		61.0690	61.0690	2.0600e-003		61.1205
Total	**0.0340**	**0.2143**	**0.2826**	**1.1400e-003**	**0.0792**	**8.9000e-004**	**0.0801**	**0.0213**	**8.3000e-004**	**0.0221**		**117.1989**	**117.1989**	**4.0000e-003**		**117.2989**

3.5 Facility startup and testing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561		1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**		**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0217	0.0157	0.1740	4.6000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		45.8018	45.8018	1.5500e-003		45.8404
Total	**0.0267**	**0.2090**	**0.2246**	**9.9000e-004**	**0.0628**	**7.7000e-004**	**0.0635**	**0.0170**	**7.2000e-004**	**0.0177**		**101.9316**	**101.9316**	**3.4900e-003**		**102.0187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561	0.0000	1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**	**0.0000**	**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0217	0.0157	0.1740	4.6000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		45.8018	45.8018	1.5500e-003		45.8404
Total	**0.0267**	**0.2090**	**0.2246**	**9.9000e-004**	**0.0628**	**7.7000e-004**	**0.0635**	**0.0170**	**7.2000e-004**	**0.0177**		**101.9316**	**101.9316**	**3.4900e-003**		**102.0187**

3.6 Final paving and demobilization - 2023

Unmitigated Construction On-Site

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

Category	lb/day										lb/day					
Off-Road	0.8360	8.4553	10.1258	0.0163		0.4166	0.4166		0.3833	0.3833		1,575.7072	1,575.7072	0.5096		1,588.4476
Total	**0.8360**	**8.4553**	**10.1258**	**0.0163**		**0.4166**	**0.4166**		**0.3833**	**0.3833**		**1,575.7072**	**1,575.7072**	**0.5096**		**1,588.4476**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0217	0.0157	0.1740	4.6000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		45.8018	45.8018	1.5500e-003		45.8404
Total	**0.0267**	**0.2090**	**0.2246**	**9.9000e-004**	**0.0628**	**7.7000e-004**	**0.0635**	**0.0170**	**7.2000e-004**	**0.0177**		**101.9316**	**101.9316**	**3.4900e-003**		**102.0187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8360	8.4553	10.1258	0.0163		0.4166	0.4166		0.3833	0.3833	0.0000	1,575.7072	1,575.7072	0.5096		1,588.4476
Total	**0.8360**	**8.4553**	**10.1258**	**0.0163**		**0.4166**	**0.4166**		**0.3833**	**0.3833**	**0.0000**	**1,575.7072**	**1,575.7072**	**0.5096**		**1,588.4476**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0300e-003	0.1933	0.0507	5.3000e-004	0.0135	3.9000e-004	0.0139	3.8800e-003	3.7000e-004	4.2500e-003		56.1299	56.1299	1.9400e-003		56.1783
Worker	0.0217	0.0157	0.1740	4.6000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		45.8018	45.8018	1.5500e-003		45.8404
Total	**0.0267**	**0.2090**	**0.2246**	**9.9000e-004**	**0.0628**	**7.7000e-004**	**0.0635**	**0.0170**	**7.2000e-004**	**0.0177**		**101.9316**	**101.9316**	**3.4900e-003**		**102.0187**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate	Unmitigated	Mitigated

Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981
Other Asphalt Surfaces	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Unmitigated	1.8000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-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	lb/day										lb/day					
Architectural Coating	4.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Total	**1.7000e-004**	**0.0000**	**4.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**8.0000e-005**	**8.0000e-005**	**0.0000**		**9.0000e-005**

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	4.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Total	**1.7000e-004**	**0.0000**	**4.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**8.0000e-005**	**8.0000e-005**	**0.0000**		**9.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Beltz 10 Construction

Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	0.37	1000sqft	0.01	373.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Beltz 10 Construction

Land Use - Surrogate land uses for pipeline and pavement

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 13 CY of material assumed to be exported and 0.01 acres total assumed to be disturbed

Architectural Coating - Default

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	PhaseEndDate	2/20/2023	2/24/2023
tblConstructionPhase	PhaseEndDate	11/29/2023	3/17/2023
tblConstructionPhase	PhaseEndDate	9/4/2024	3/24/2023
tblConstructionPhase	PhaseEndDate	1/22/2025	3/31/2023
tblConstructionPhase	PhaseStartDate	7/13/2023	3/13/2023
tblConstructionPhase	PhaseStartDate	4/18/2024	3/20/2023
tblConstructionPhase	PhaseStartDate	9/5/2024	3/27/2023
tblGrading	AcresOfGrading	2.50	0.01
tblGrading	MaterialExported	0.00	13.00
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment

tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00

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					
2023	1.4384	15.0781	14.5728	0.0281	0.1443	0.4755	0.7892	0.0385	0.4585	0.6318	0.0000	2,729.8102	2,729.8102	0.8220	0.0000	2,750.3610
Maximum	**1.4384**	**15.0781**	**14.5728**	**0.0281**	**0.1443**	**0.4755**	**0.7892**	**0.0385**	**0.4585**	**0.6318**	**0.0000**	**2,729.8102**	**2,729.8102**	**0.8220**	**0.0000**	**2,750.3610**

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					
2023	1.4384	15.0781	14.5728	0.0281	0.1430	0.4755	0.7879	0.0384	0.4585	0.6317	0.0000	2,729.8102	2,729.8102	0.8220	0.0000	2,750.3610
Maximum	**1.4384**	**15.0781**	**14.5728**	**0.0281**	**0.1430**	**0.4755**	**0.7879**	**0.0384**	**0.4585**	**0.6317**	**0.0000**	**2,729.8102**	**2,729.8102**	**0.8220**	**0.0000**	**2,750.3610**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.89**	**0.00**	**0.16**	**0.36**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	1.8000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-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
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
Total	**1.8000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0000**	**9.0000e-005**

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	1.8000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-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
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
Total	**1.8000e-004**	**0.0000**	**4.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**8.0000e-005**	**8.0000e-005**	**0.0000**	**0.0000**	**9.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Mobilization	Site Preparation	2/20/2023	2/24/2023	5	5	
2	Injection line and conduit	Trenching	2/27/2023	3/10/2023	5	10	
3	Wellhead piping	Building Construction	3/13/2023	3/17/2023	5	5	
4	Facility startup and testing	Building Construction	3/20/2023	3/24/2023	5	5	
5	Final paving and demobilization	Building Construction	3/27/2023	3/31/2023	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Injection line and conduit	Concrete/Industrial Saws	1	8.00	81	0.73
Injection line and conduit	Excavators	1	8.00	158	0.38
Injection line and conduit	Forklifts	1	8.00	89	0.20
Injection line and conduit	Pumps	1	8.00	84	0.74
Injection line and conduit	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Wellhead piping	Generator Sets	1	8.00	84	0.74
Facility startup and testing	Generator Sets	1	8.00	84	0.74
Final paving and demobilization	Pavers	1	4.00	130	0.42
Final paving and demobilization	Paving Equipment	1	4.00	132	0.36
Final paving and demobilization	Rollers	1	4.00	80	0.38
Wellhead piping	Cranes	1	4.00	231	0.29
Wellhead piping	Forklifts	1	8.00	89	0.20
Wellhead piping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Facility startup and testing	Cranes	1	4.00	231	0.29
Facility startup and testing	Forklifts	1	8.00	89	0.20
Facility startup and testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Final paving and demobilization	Cranes	1	4.00	231	0.29
Final paving and demobilization	Forklifts	1	8.00	89	0.20
Final paving and demobilization	Tractors/Loaders/Backhoes	2	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
Mobilization	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Injection line and conduit	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead piping	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	3	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Final paving and demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Mobilization - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3500e-003	0.0000	2.3500e-003	2.6000e-004	0.0000	2.6000e-004			0.0000			0.0000
Off-Road	0.5348	6.1887	3.9239	9.7300e-003		0.2266	0.2266		0.2084	0.2084		942.4317	942.4317	0.3048		950.0517
Total	**0.5348**	**6.1887**	**3.9239**	**9.7300e-003**	**2.3500e-003**	**0.2266**	**0.2289**	**2.6000e-004**	**0.2084**	**0.2087**		**942.4317**	**942.4317**	**0.3048**		**950.0517**

Unmitigated Construction Off-Site

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

Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0325	0.0261	0.2335	5.8000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		58.1867	58.1867	1.9900e-003		58.2364
Total	**0.0379**	**0.2203**	**0.2907**	**1.1000e-003**	**0.0792**	**9.1000e-004**	**0.0801**	**0.0213**	**8.5000e-004**	**0.0222**		**113.1090**	**113.1090**	**4.0600e-003**		**113.2104**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0600e-003	0.0000	1.0600e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	0.5348	6.1887	3.9239	9.7300e-003		0.2266	0.2266		0.2084	0.2084	0.0000	942.4317	942.4317	0.3048		950.0517
Total	**0.5348**	**6.1887**	**3.9239**	**9.7300e-003**	**1.0600e-003**	**0.2266**	**0.2276**	**1.2000e-004**	**0.2084**	**0.2086**	**0.0000**	**942.4317**	**942.4317**	**0.3048**		**950.0517**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0325	0.0261	0.2335	5.8000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		58.1867	58.1867	1.9900e-003		58.2364
Total	**0.0379**	**0.2203**	**0.2907**	**1.1000e-003**	**0.0792**	**9.1000e-004**	**0.0801**	**0.0213**	**8.5000e-004**	**0.0222**		**113.1090**	**113.1090**	**4.0600e-003**		**113.2104**

3.3 Injection line and conduit - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1041	9.3811	14.0165	0.0227		0.4740	0.4740		0.4572	0.4572		2,165.4132	2,165.4132	0.3649		2,174.5347
Total	**1.1041**	**9.3811**	**14.0165**	**0.0227**		**0.4740**	**0.4740**		**0.4572**	**0.4572**		**2,165.4132**	**2,165.4132**	**0.3649**		**2,174.5347**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1300e-003	0.0461	0.0129	1.5000e-004	3.4600e-003	1.4000e-004	3.6000e-003	9.5000e-004	1.3000e-004	1.0800e-003		16.3928	16.3928	6.6000e-004		16.4093
Vendor	0.0108	0.3884	0.1145	1.0400e-003	0.0270	8.2000e-004	0.0278	7.7600e-003	7.8000e-004	8.5400e-003		109.8447	109.8447	4.1300e-003		109.9480
Worker	0.0325	0.0261	0.2335	5.8000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		58.1867	58.1867	1.9900e-003		58.2364
Total	**0.0444**	**0.4606**	**0.3609**	**1.7700e-003**	**0.0962**	**1.4600e-003**	**0.0976**	**0.0261**	**1.3700e-003**	**0.0275**		**184.4241**	**184.4241**	**6.7800e-003**		**184.5937**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1041	9.3811	14.0165	0.0227		0.4740	0.4740		0.4572	0.4572	0.0000	2,165.4132	2,165.4132	0.3649		2,174.5347
Total	**1.1041**	**9.3811**	**14.0165**	**0.0227**		**0.4740**	**0.4740**		**0.4572**	**0.4572**	**0.0000**	**2,165.4132**	**2,165.4132**	**0.3649**		**2,174.5347**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1300e-003	0.0461	0.0129	1.5000e-004	3.4600e-003	1.4000e-004	3.6000e-003	9.5000e-004	1.3000e-004	1.0800e-003		16.3928	16.3928	6.6000e-004		16.4093
Vendor	0.0108	0.3884	0.1145	1.0400e-003	0.0270	8.2000e-004	0.0278	7.7600e-003	7.8000e-004	8.5400e-003		109.8447	109.8447	4.1300e-003		109.9480
Worker	0.0325	0.0261	0.2335	5.8000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		58.1867	58.1867	1.9900e-003		58.2364
Total	**0.0444**	**0.4606**	**0.3609**	**1.7700e-003**	**0.0962**	**1.4600e-003**	**0.0976**	**0.0261**	**1.3700e-003**	**0.0275**		**184.4241**	**184.4241**	**6.7800e-003**		**184.5937**

3.4 Wellhead piping - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561		1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**		**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0325	0.0261	0.2335	5.8000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		58.1867	58.1867	1.9900e-003		58.2364
Total	**0.0379**	**0.2203**	**0.2907**	**1.1000e-003**	**0.0792**	**9.1000e-004**	**0.0801**	**0.0213**	**8.5000e-004**	**0.0222**		**113.1090**	**113.1090**	**4.0600e-003**		**113.2104**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561	0.0000	1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**	**0.0000**	**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0325	0.0261	0.2335	5.8000e-004	0.0657	5.0000e-004	0.0662	0.0174	4.6000e-004	0.0179		58.1867	58.1867	1.9900e-003		58.2364
Total	**0.0379**	**0.2203**	**0.2907**	**1.1000e-003**	**0.0792**	**9.1000e-004**	**0.0801**	**0.0213**	**8.5000e-004**	**0.0222**		**113.1090**	**113.1090**	**4.0600e-003**		**113.2104**

3.5 Facility startup and testing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561		1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**		**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0244	0.0196	0.1751	4.4000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		43.6400	43.6400	1.4900e-003		43.6773
Total	**0.0298**	**0.2138**	**0.2323**	**9.6000e-004**	**0.0628**	**7.9000e-004**	**0.0636**	**0.0170**	**7.4000e-004**	**0.0177**		**98.5623**	**98.5623**	**3.5600e-003**		**98.6513**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5841	5.5830	5.7314	0.0110		0.2672	0.2672		0.2561	0.2561	0.0000	1,050.4750	1,050.4750	0.1657		1,054.6163
Total	**0.5841**	**5.5830**	**5.7314**	**0.0110**		**0.2672**	**0.2672**		**0.2561**	**0.2561**	**0.0000**	**1,050.4750**	**1,050.4750**	**0.1657**		**1,054.6163**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0244	0.0196	0.1751	4.4000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		43.6400	43.6400	1.4900e-003		43.6773
Total	**0.0298**	**0.2138**	**0.2323**	**9.6000e-004**	**0.0628**	**7.9000e-004**	**0.0636**	**0.0170**	**7.4000e-004**	**0.0177**		**98.5623**	**98.5623**	**3.5600e-003**		**98.6513**

3.6 Final paving and demobilization - 2023

Unmitigated Construction On-Site

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

Category	lb/day										lb/day					
Off-Road	0.8360	8.4553	10.1258	0.0163		0.4166	0.4166		0.3833	0.3833		1,575.7072	1,575.7072	0.5096		1,588.4476
Total	**0.8360**	**8.4553**	**10.1258**	**0.0163**		**0.4166**	**0.4166**		**0.3833**	**0.3833**		**1,575.7072**	**1,575.7072**	**0.5096**		**1,588.4476**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0244	0.0196	0.1751	4.4000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		43.6400	43.6400	1.4900e-003		43.6773
Total	**0.0298**	**0.2138**	**0.2323**	**9.6000e-004**	**0.0628**	**7.9000e-004**	**0.0636**	**0.0170**	**7.4000e-004**	**0.0177**		**98.5623**	**98.5623**	**3.5600e-003**		**98.6513**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8360	8.4553	10.1258	0.0163		0.4166	0.4166		0.3833	0.3833	0.0000	1,575.7072	1,575.7072	0.5096		1,588.4476
Total	**0.8360**	**8.4553**	**10.1258**	**0.0163**		**0.4166**	**0.4166**		**0.3833**	**0.3833**	**0.0000**	**1,575.7072**	**1,575.7072**	**0.5096**		**1,588.4476**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.3700e-003	0.1942	0.0572	5.2000e-004	0.0135	4.1000e-004	0.0139	3.8800e-003	3.9000e-004	4.2700e-003		54.9224	54.9224	2.0700e-003		54.9740
Worker	0.0244	0.0196	0.1751	4.4000e-004	0.0493	3.8000e-004	0.0497	0.0131	3.5000e-004	0.0134		43.6400	43.6400	1.4900e-003		43.6773
Total	**0.0298**	**0.2138**	**0.2323**	**9.6000e-004**	**0.0628**	**7.9000e-004**	**0.0636**	**0.0170**	**7.4000e-004**	**0.0177**		**98.5623**	**98.5623**	**3.5600e-003**		**98.6513**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate	Unmitigated	Mitigated

Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981
Other Asphalt Surfaces	0.581303	0.027509	0.206400	0.116089	0.018972	0.004711	0.021162	0.012551	0.001232	0.002512	0.005585	0.000994	0.000981

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Unmitigated	1.8000e-004	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-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	lb/day										lb/day					
Architectural Coating	4.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Total	**1.7000e-004**	**0.0000**	**4.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**8.0000e-005**	**8.0000e-005**	**0.0000**		**9.0000e-005**

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	4.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Total	**1.7000e-004**	**0.0000**	**4.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**8.0000e-005**	**8.0000e-005**	**0.0000**		**9.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Beltz 12 Construction
Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	0.33	1000sqft	0.01	326.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Beltz 12 Construction

Land Use - Surrogate land uses for pipeline and pavement

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 11 CY of material assumed to be exported and 0.01 acres total assumed to be disturbed

Architectural Coating - Default

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	PhaseEndDate	11/22/2022	8/19/2022
tblConstructionPhase	PhaseEndDate	4/11/2023	9/2/2022
tblConstructionPhase	PhaseEndDate	8/29/2023	9/9/2022
tblConstructionPhase	PhaseEndDate	7/5/2022	7/11/2022
tblConstructionPhase	PhaseStartDate	7/6/2022	8/15/2022
tblConstructionPhase	PhaseStartDate	11/23/2022	8/29/2022
tblConstructionPhase	PhaseStartDate	4/12/2023	9/5/2022
tblGrading	AcresOfGrading	2.50	0.01
tblGrading	MaterialExported	0.00	11.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts

tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00

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					
2022	0.0201	0.1925	0.2021	3.8000e-004	1.9500e-003	9.2700e-003	0.0112	5.3000e-004	8.8000e-003	9.3300e-003	0.0000	32.8601	32.8601	6.3100e-003	0.0000	33.0179
Maximum	**0.0201**	**0.1925**	**0.2021**	**3.8000e-004**	**1.9500e-003**	**9.2700e-003**	**0.0112**	**5.3000e-004**	**8.8000e-003**	**9.3300e-003**	**0.0000**	**32.8601**	**32.8601**	**6.3100e-003**	**0.0000**	**33.0179**

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					
2022	0.0201	0.1925	0.2021	3.8000e-004	1.9500e-003	9.2700e-003	0.0112	5.3000e-004	8.8000e-003	9.3300e-003	0.0000	32.8601	32.8601	6.3100e-003	0.0000	33.0178
Maximum	**0.0201**	**0.1925**	**0.2021**	**3.8000e-004**	**1.9500e-003**	**9.2700e-003**	**0.0112**	**5.3000e-004**	**8.8000e-003**	**9.3300e-003**	**0.0000**	**32.8601**	**32.8601**	**6.3100e-003**	**0.0000**	**33.0178**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**7-5-2022**	**9-30-2022**	0.1845	0.1845
		Highest	0.1845	0.1845

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	3.0000e-005	0.0000	0.0000	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
Total	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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**

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	3.0000e-005	0.0000	0.0000	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
Total	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Mobilization	Site Preparation	7/5/2022	7/11/2022	5	5	
2	Injection line and conduit	Trenching	7/12/2022	7/25/2022	5	10	
3	Filters	Building Construction	7/25/2022	8/12/2022	5	15	
4	Wellhead piping	Building Construction	8/15/2022	8/19/2022	5	5	
5	Building equipment upgrades	Building Construction	8/22/2022	8/26/2022	5	5	
6	Facility startup and testing	Building Construction	8/29/2022	9/2/2022	5	5	
7	Final paving and demobilization	Building Construction	9/5/2022	9/9/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Filters	Cranes	1	4.00	231	0.29
Building equipment upgrades	Cranes	1	4.00	231	0.29
Filters	Forklifts	1	8.00	89	0.20
Building equipment upgrades	Forklifts	1	8.00	89	0.20
Filters	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Building equipment upgrades	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Injection line and conduit	Concrete/Industrial Saws	1	8.00	81	0.73
Injection line and conduit	Excavators	1	8.00	158	0.38
Injection line and conduit	Forklifts	1	8.00	89	0.20
Injection line and conduit	Pumps	1	8.00	84	0.74
Injection line and conduit	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Filters	Generator Sets	1	8.00	84	0.74
Wellhead piping	Generator Sets	1	8.00	84	0.74
Wellhead piping	Cranes	1	4.00	231	0.29
Wellhead piping	Forklifts	1	8.00	89	0.20
Building equipment upgrades	Generator Sets	1	8.00	84	0.74
Wellhead piping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Final paving and demobilization	Pavers	1	4.00	130	0.42
Final paving and demobilization	Paving Equipment	1	4.00	132	0.36
Final paving and demobilization	Rollers	1	4.00	80	0.38
Facility startup and testing	Cranes	1	4.00	231	0.29
Facility startup and testing	Forklifts	1	8.00	89	0.20
Facility startup and testing	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Final paving and demobilization	Cranes	1	4.00	231	0.29

Final paving and demobilization	Forklifts	1	8.00	89	0.20
Final paving and demobilization	Tractors/Loaders/Backhoes	2	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
Mobilization	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Filters	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building equipment upgrades	3	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Injection line and conduit	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead piping	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Final paving and demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Mobilization - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	0.0173	9.9000e-003	2.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.1376	2.1376	6.9000e-004	0.0000	2.1549
Total	**1.4500e-003**	**0.0173**	**9.9000e-003**	**2.0000e-005**	**1.0000e-005**	**6.4000e-004**	**6.5000e-004**	**0.0000**	**5.9000e-004**	**5.9000e-004**	**0.0000**	**2.1376**	**2.1376**	**6.9000e-004**	**0.0000**	**2.1549**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4500e-003	0.0173	9.9000e-003	2.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.1376	2.1376	6.9000e-004	0.0000	2.1549
Total	**1.4500e-003**	**0.0173**	**9.9000e-003**	**2.0000e-005**	**0.0000**	**6.4000e-004**	**6.4000e-004**	**0.0000**	**5.9000e-004**	**5.9000e-004**	**0.0000**	**2.1376**	**2.1376**	**6.9000e-004**	**0.0000**	**2.1549**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

3.3 Injection line and conduit - 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	5.9600e-003	0.0514	0.0703	1.1000e-004		2.7600e-003	2.7600e-003		2.6600e-003	2.6600e-003	0.0000	9.8294	9.8294	1.6900e-003	0.0000	9.8715
Total	**5.9600e-003**	**0.0514**	**0.0703**	**1.1000e-004**		**2.7600e-003**	**2.7600e-003**		**2.6600e-003**	**2.6600e-003**	**0.0000**	**9.8294**	**9.8294**	**1.6900e-003**	**0.0000**	**9.8715**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.9000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0768	0.0768	0.0000	0.0000	0.0769
Vendor	7.0000e-005	2.3200e-003	6.0000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5134	0.5134	2.0000e-005	0.0000	0.5139
Worker	1.6000e-004	1.3000e-004	1.2300e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2742	0.2742	1.0000e-005	0.0000	0.2744
Total	**2.4000e-004**	**2.7400e-003**	**1.9000e-003**	**1.0000e-005**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**1.2000e-004**	**1.0000e-005**	**1.4000e-004**	**0.0000**	**0.8644**	**0.8644**	**3.0000e-005**	**0.0000**	**0.8652**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.9600e-003	0.0514	0.0703	1.1000e-004		2.7600e-003	2.7600e-003		2.6600e-003	2.6600e-003	0.0000	9.8294	9.8294	1.6900e-003	0.0000	9.8715
Total	**5.9600e-003**	**0.0514**	**0.0703**	**1.1000e-004**		**2.7600e-003**	**2.7600e-003**		**2.6600e-003**	**2.6600e-003**	**0.0000**	**9.8294**	**9.8294**	**1.6900e-003**	**0.0000**	**9.8715**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.9000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0768	0.0768	0.0000	0.0000	0.0769
Vendor	7.0000e-005	2.3200e-003	6.0000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5134	0.5134	2.0000e-005	0.0000	0.5139
Worker	1.6000e-004	1.3000e-004	1.2300e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2742	0.2742	1.0000e-005	0.0000	0.2744
Total	**2.4000e-004**	**2.7400e-003**	**1.9000e-003**	**1.0000e-005**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**1.2000e-004**	**1.0000e-005**	**1.4000e-004**	**0.0000**	**0.8644**	**0.8644**	**3.0000e-005**	**0.0000**	**0.8652**

3.4 Filters - 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	4.7300e-003	0.0456	0.0433	8.0000e-005		2.2800e-003	2.2800e-003		2.1800e-003	2.1800e-003	0.0000	7.1474	7.1474	1.1400e-003	0.0000	7.1759
Total	**4.7300e-003**	**0.0456**	**0.0433**	**8.0000e-005**		**2.2800e-003**	**2.2800e-003**		**2.1800e-003**	**2.1800e-003**	**0.0000**	**7.1474**	**7.1474**	**1.1400e-003**	**0.0000**	**7.1759**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0000e-005	1.7400e-003	4.5000e-004	0.0000	1.0000e-004	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3851	0.3851	1.0000e-005	0.0000	0.3854
Worker	2.4000e-004	2.0000e-004	1.8400e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4113	0.4113	2.0000e-005	0.0000	0.4116
Total	**2.9000e-004**	**1.9400e-003**	**2.2900e-003**	**0.0000**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**1.6000e-004**	**1.0000e-005**	**1.6000e-004**	**0.0000**	**0.7963**	**0.7963**	**3.0000e-005**	**0.0000**	**0.7971**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.7300e-003	0.0456	0.0433	8.0000e-005		2.2800e-003	2.2800e-003		2.1800e-003	2.1800e-003	0.0000	7.1473	7.1473	1.1400e-003	0.0000	7.1759
Total	**4.7300e-003**	**0.0456**	**0.0433**	**8.0000e-005**		**2.2800e-003**	**2.2800e-003**		**2.1800e-003**	**2.1800e-003**	**0.0000**	**7.1473**	**7.1473**	**1.1400e-003**	**0.0000**	**7.1759**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0000e-005	1.7400e-003	4.5000e-004	0.0000	1.0000e-004	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3851	0.3851	1.0000e-005	0.0000	0.3854
Worker	2.4000e-004	2.0000e-004	1.8400e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4113	0.4113	2.0000e-005	0.0000	0.4116
Total	**2.9000e-004**	**1.9400e-003**	**2.2900e-003**	**0.0000**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**1.6000e-004**	**1.0000e-005**	**1.6000e-004**	**0.0000**	**0.7963**	**0.7963**	**3.0000e-005**	**0.0000**	**0.7971**

3.5 Wellhead piping - 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	1.5800e-003	0.0152	0.0144	3.0000e-005		7.6000e-004	7.6000e-004		7.3000e-004	7.3000e-004	0.0000	2.3825	2.3825	3.8000e-004	0.0000	2.3920
Total	**1.5800e-003**	**0.0152**	**0.0144**	**3.0000e-005**		**7.6000e-004**	**7.6000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**2.3825**	**2.3825**	**3.8000e-004**	**0.0000**	**2.3920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5800e-003	0.0152	0.0144	3.0000e-005		7.6000e-004	7.6000e-004		7.3000e-004	7.3000e-004	0.0000	2.3825	2.3825	3.8000e-004	0.0000	2.3920
Total	**1.5800e-003**	**0.0152**	**0.0144**	**3.0000e-005**		**7.6000e-004**	**7.6000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**2.3825**	**2.3825**	**3.8000e-004**	**0.0000**	**2.3920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

3.6 Building equipment upgrades - 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	1.5800e-003	0.0152	0.0144	3.0000e-005		7.6000e-004	7.6000e-004		7.3000e-004	7.3000e-004	0.0000	2.3825	2.3825	3.8000e-004	0.0000	2.3920
Total	**1.5800e-003**	**0.0152**	**0.0144**	**3.0000e-005**		**7.6000e-004**	**7.6000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**2.3825**	**2.3825**	**3.8000e-004**	**0.0000**	**2.3920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	5.9000e-004	1.4000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1536	0.1536	1.0000e-005	0.0000	0.1537
Vendor	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.1000e-004**	**1.2400e-003**	**9.0000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.3000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.4190**	**0.4190**	**2.0000e-005**	**0.0000**	**0.4194**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5800e-003	0.0152	0.0144	3.0000e-005		7.6000e-004	7.6000e-004		7.3000e-004	7.3000e-004	0.0000	2.3825	2.3825	3.8000e-004	0.0000	2.3920
Total	**1.5800e-003**	**0.0152**	**0.0144**	**3.0000e-005**		**7.6000e-004**	**7.6000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**2.3825**	**2.3825**	**3.8000e-004**	**0.0000**	**2.3920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	5.9000e-004	1.4000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1536	0.1536	1.0000e-005	0.0000	0.1537
Vendor	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.1000e-004**	**1.2400e-003**	**9.0000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.3000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.4190**	**0.4190**	**2.0000e-005**	**0.0000**	**0.4194**

3.7 Facility startup and testing - 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	1.5700e-003	0.0163	0.0164	3.0000e-005		8.4000e-004	8.4000e-004		7.8000e-004	7.8000e-004	0.0000	2.3358	2.3358	7.6000e-004	0.0000	2.3547
Total	**1.5700e-003**	**0.0163**	**0.0164**	**3.0000e-005**		**8.4000e-004**	**8.4000e-004**		**7.8000e-004**	**7.8000e-004**	**0.0000**	**2.3358**	**2.3358**	**7.6000e-004**	**0.0000**	**2.3547**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1028	0.1028	0.0000	0.0000	0.1029
Total	**8.0000e-005**	**6.3000e-004**	**6.1000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2312**	**0.2312**	**0.0000**	**0.0000**	**0.2314**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5700e-003	0.0163	0.0164	3.0000e-005		8.4000e-004	8.4000e-004		7.8000e-004	7.8000e-004	0.0000	2.3358	2.3358	7.6000e-004	0.0000	2.3547
Total	**1.5700e-003**	**0.0163**	**0.0164**	**3.0000e-005**		**8.4000e-004**	**8.4000e-004**		**7.8000e-004**	**7.8000e-004**	**0.0000**	**2.3358**	**2.3358**	**7.6000e-004**	**0.0000**	**2.3547**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1028	0.1028	0.0000	0.0000	0.1029
Total	**8.0000e-005**	**6.3000e-004**	**6.1000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2312**	**0.2312**	**0.0000**	**0.0000**	**0.2314**

3.8 Final paving and demobilization - 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	2.2500e-003	0.0231	0.0254	4.0000e-005		1.1900e-003	1.1900e-003		1.1000e-003	1.1000e-003	0.0000	3.5722	3.5722	1.1600e-003	0.0000	3.6011
Total	**2.2500e-003**	**0.0231**	**0.0254**	**4.0000e-005**		**1.1900e-003**	**1.1900e-003**		**1.1000e-003**	**1.1000e-003**	**0.0000**	**3.5722**	**3.5722**	**1.1600e-003**	**0.0000**	**3.6011**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1028	0.1028	0.0000	0.0000	0.1029

Total	**8.0000e-005**	**6.3000e-004**	**6.1000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2312**	**0.2312**	**0.0000**	**0.0000**	**0.2314**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2500e-003	0.0231	0.0254	4.0000e-005		1.1900e-003	1.1900e-003		1.1000e-003	1.1000e-003	0.0000	3.5722	3.5722	1.1600e-003	0.0000	3.6011
Total	**2.2500e-003**	**0.0231**	**0.0254**	**4.0000e-005**		**1.1900e-003**	**1.1900e-003**		**1.1000e-003**	**1.1000e-003**	**0.0000**	**3.5722**	**3.5722**	**1.1600e-003**	**0.0000**	**3.6011**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1028	0.1028	0.0000	0.0000	0.1029
Total	**8.0000e-005**	**6.3000e-004**	**6.1000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2312**	**0.2312**	**0.0000**	**0.0000**	**0.2314**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058
Other Asphalt Surfaces	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0000e-005	0.0000	0.0000	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	3.0000e-005	0.0000	0.0000	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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0000e-005					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	0.0000	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
Total	**3.0000e-005**	**0.0000**	**0.0000**	**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**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0000e-005					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	0.0000	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
Total	**3.0000e-005**	**0.0000**	**0.0000**	**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**

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

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
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Beltz 12 Construction
Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	0.33	1000sqft	0.01	326.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Beltz 12 Construction

Land Use - Surrogate land uses for pipeline and pavement

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 11 CY of material assumed to be exported and 0.01 acres total assumed to be disturbed

Architectural Coating - Default

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	PhaseEndDate	11/22/2022	8/19/2022
tblConstructionPhase	PhaseEndDate	4/11/2023	9/2/2022
tblConstructionPhase	PhaseEndDate	8/29/2023	9/9/2022
tblConstructionPhase	PhaseEndDate	7/5/2022	7/11/2022
tblConstructionPhase	PhaseStartDate	7/6/2022	8/15/2022
tblConstructionPhase	PhaseStartDate	11/23/2022	8/29/2022
tblConstructionPhase	PhaseStartDate	4/12/2023	9/5/2022
tblGrading	AcresOfGrading	2.50	0.01
tblGrading	MaterialExported	0.00	11.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts

tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00

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					
2022	1.9037	17.1521	20.5207	0.0367	0.1754	0.8591	1.0345	0.0474	0.8267	0.8741	0.0000	3,532.6010	3,532.6010	0.8225	0.0000	3,546.3838
Maximum	**1.9037**	**17.1521**	**20.5207**	**0.0367**	**0.1754**	**0.8591**	**1.0345**	**0.0474**	**0.8267**	**0.8741**	**0.0000**	**3,532.6010**	**3,532.6010**	**0.8225**	**0.0000**	**3,546.3838**

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					
2022	1.9037	17.1521	20.5207	0.0367	0.1754	0.8591	1.0345	0.0474	0.8267	0.8741	0.0000	3,532.6010	3,532.6010	0.8225	0.0000	3,546.3838
Maximum	**1.9037**	**17.1521**	**20.5207**	**0.0367**	**0.1754**	**0.8591**	**1.0345**	**0.0474**	**0.8267**	**0.8741**	**0.0000**	**3,532.6010**	**3,532.6010**	**0.8225**	**0.0000**	**3,546.3838**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	1.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		7.0000e-005	7.0000e-005	0.0000		8.0000e-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
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
Total	**1.6000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**0.0000**	**8.0000e-005**

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	1.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		7.0000e-005	7.0000e-005	0.0000		8.0000e-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
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
Total	**1.6000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**0.0000**	**8.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Mobilization	Site Preparation	7/5/2022	7/11/2022	5	5	
2	Injection line and conduit	Trenching	7/12/2022	7/25/2022	5	10	
3	Filters	Building Construction	7/25/2022	8/12/2022	5	15	
4	Wellhead piping	Building Construction	8/15/2022	8/19/2022	5	5	
5	Building equipment upgrades	Building Construction	8/22/2022	8/26/2022	5	5	
6	Facility startup and testing	Building Construction	8/29/2022	9/2/2022	5	5	
7	Final paving and demobilization	Building Construction	9/5/2022	9/9/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Filters	Cranes	1	4.00	231	0.29
Building equipment upgrades	Cranes	1	4.00	231	0.29
Filters	Forklifts	1	8.00	89	0.20
Building equipment upgrades	Forklifts	1	8.00	89	0.20
Filters	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Building equipment upgrades	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Injection line and conduit	Concrete/Industrial Saws	1	8.00	81	0.73
Injection line and conduit	Excavators	1	8.00	158	0.38
Injection line and conduit	Forklifts	1	8.00	89	0.20
Injection line and conduit	Pumps	1	8.00	84	0.74
Injection line and conduit	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Filters	Generator Sets	1	8.00	84	0.74
Wellhead piping	Generator Sets	1	8.00	84	0.74
Wellhead piping	Cranes	1	4.00	231	0.29
Wellhead piping	Forklifts	1	8.00	89	0.20
Building equipment upgrades	Generator Sets	1	8.00	84	0.74
Wellhead piping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Final paving and demobilization	Pavers	1	4.00	130	0.42
Final paving and demobilization	Paving Equipment	1	4.00	132	0.36
Final paving and demobilization	Rollers	1	4.00	80	0.38
Facility startup and testing	Cranes	1	4.00	231	0.29
Facility startup and testing	Forklifts	1	8.00	89	0.20
Facility startup and testing	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Final paving and demobilization	Cranes	1	4.00	231	0.29
Final paving and demobilization	Forklifts	1	8.00	89	0.20
Final paving and demobilization	Tractors/Loaders/Backhoes	2	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
Mobilization	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Filters	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building equipment upgrades	3	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Injection line and conduit	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead piping	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Final paving and demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Mobilization - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3100e-003	0.0000	2.3100e-003	2.6000e-004	0.0000	2.6000e-004			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**2.3100e-003**	**0.2573**	**0.2596**	**2.6000e-004**	**0.2367**	**0.2370**		**942.5179**	**942.5179**	**0.3048**		**950.1386**

Unmitigated Construction Off-Site

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

Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0400e-003	0.0000	1.0400e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**1.0400e-003**	**0.2573**	**0.2584**	**1.2000e-004**	**0.2367**	**0.2369**	**0.0000**	**942.5179**	**942.5179**	**0.3048**		**950.1386**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

3.3 Injection line and conduit - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1913	10.2849	14.0563	0.0227		0.5522	0.5522		0.5325	0.5325		2,167.0033	2,167.0033	0.3718		2,176.2981
Total	**1.1913**	**10.2849**	**14.0563**	**0.0227**		**0.5522**	**0.5522**		**0.5325**	**0.5325**		**2,167.0033**	**2,167.0033**	**0.3718**		**2,176.2981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4200e-003	0.0575	0.0132	1.6000e-004	3.4600e-003	2.2000e-004	3.6800e-003	9.5000e-004	2.1000e-004	1.1500e-003		17.0264	17.0264	6.8000e-004		17.0433
Vendor	0.0127	0.4585	0.1125	1.0800e-003	0.0270	1.3700e-003	0.0283	7.7500e-003	1.3100e-003	9.0600e-003		114.2117	114.2117	4.2600e-003		114.3183
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0451**	**0.5394**	**0.3790**	**1.8800e-003**	**0.0962**	**2.1100e-003**	**0.0983**	**0.0261**	**2.0000e-003**	**0.0281**		**194.6247**	**194.6247**	**7.2400e-003**		**194.8057**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1913	10.2849	14.0563	0.0227		0.5522	0.5522		0.5325	0.5325	0.0000	2,167.0033	2,167.0033	0.3718		2,176.2981
Total	**1.1913**	**10.2849**	**14.0563**	**0.0227**		**0.5522**	**0.5522**		**0.5325**	**0.5325**	**0.0000**	**2,167.0033**	**2,167.0033**	**0.3718**		**2,176.2981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4200e-003	0.0575	0.0132	1.6000e-004	3.4600e-003	2.2000e-004	3.6800e-003	9.5000e-004	2.1000e-004	1.1500e-003		17.0264	17.0264	6.8000e-004		17.0433
Vendor	0.0127	0.4585	0.1125	1.0800e-003	0.0270	1.3700e-003	0.0283	7.7500e-003	1.3100e-003	9.0600e-003		114.2117	114.2117	4.2600e-003		114.3183
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0451**	**0.5394**	**0.3790**	**1.8800e-003**	**0.0962**	**2.1100e-003**	**0.0983**	**0.0261**	**2.0000e-003**	**0.0281**		**194.6247**	**194.6247**	**7.2400e-003**		**194.8057**

3.4 Filters - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911		1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**		**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911	0.0000	1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**	**0.0000**	**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

3.5 Wellhead piping - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911		1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**		**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911	0.0000	1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**	**0.0000**	**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

3.6 Building equipment upgrades - 2022

Unmitigated Construction On-Site

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

Category	lb/day										lb/day					
Off-Road	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911		1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**		**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.6700e-003	0.2300	0.0529	6.4000e-004	0.0139	8.7000e-004	0.0147	3.7900e-003	8.3000e-004	4.6200e-003		68.1057	68.1057	2.7100e-003		68.1733
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0430**	**0.4826**	**0.3624**	**1.8200e-003**	**0.0931**	**2.0700e-003**	**0.0951**	**0.0251**	**1.9600e-003**	**0.0271**		**188.5981**	**188.5981**	**7.1400e-003**		**188.7766**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911	0.0000	1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**	**0.0000**	**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.6700e-003	0.2300	0.0529	6.4000e-004	0.0139	8.7000e-004	0.0147	3.7900e-003	8.3000e-004	4.6200e-003		68.1057	68.1057	2.7100e-003		68.1733
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0430**	**0.4826**	**0.3624**	**1.8200e-003**	**0.0931**	**2.0700e-003**	**0.0951**	**0.0251**	**1.9600e-003**	**0.0271**		**188.5981**	**188.5981**	**7.1400e-003**		**188.7766**

3.7 Facility startup and testing - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6295	6.4983	6.5758	0.0106		0.3370	0.3370		0.3100	0.3100		1,029.9239	1,029.9239	0.3331		1,038.2514
Total	**0.6295**	**6.4983**	**6.5758**	**0.0106**		**0.3370**	**0.3370**		**0.3100**	**0.3100**		**1,029.9239**	**1,029.9239**	**0.3331**		**1,038.2514**

Unmitigated Construction Off-Site

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

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0232	0.0175	0.1899	4.8000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.5400	47.5400	1.7300e-003		47.5831
Total	**0.0296**	**0.2468**	**0.2462**	**1.0200e-003**	**0.0628**	**1.0700e-003**	**0.0639**	**0.0170**	**1.0100e-003**	**0.0180**		**104.6458**	**104.6458**	**3.8600e-003**		**104.7422**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6295	6.4983	6.5758	0.0106		0.3370	0.3370		0.3100	0.3100	0.0000	1,029.9239	1,029.9239	0.3331		1,038.2514
Total	**0.6295**	**6.4983**	**6.5758**	**0.0106**		**0.3370**	**0.3370**		**0.3100**	**0.3100**	**0.0000**	**1,029.9239**	**1,029.9239**	**0.3331**		**1,038.2514**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0232	0.0175	0.1899	4.8000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.5400	47.5400	1.7300e-003		47.5831

Total	**0.0296**	**0.2468**	**0.2462**	**1.0200e-003**	**0.0628**	**1.0700e-003**	**0.0639**	**0.0170**	**1.0100e-003**	**0.0180**		**104.6458**	**104.6458**	**3.8600e-003**		**104.7422**

3.8 Final paving and demobilization - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9018	9.2453	10.1761	0.0163		0.4772	0.4772		0.4390	0.4390		1,575.0565	1,575.0565	0.5094		1,587.7916
Total	**0.9018**	**9.2453**	**10.1761**	**0.0163**		**0.4772**	**0.4772**		**0.4390**	**0.4390**		**1,575.0565**	**1,575.0565**	**0.5094**		**1,587.7916**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0232	0.0175	0.1899	4.8000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.5400	47.5400	1.7300e-003		47.5831
Total	**0.0296**	**0.2468**	**0.2462**	**1.0200e-003**	**0.0628**	**1.0700e-003**	**0.0639**	**0.0170**	**1.0100e-003**	**0.0180**		**104.6458**	**104.6458**	**3.8600e-003**		**104.7422**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9018	9.2453	10.1761	0.0163		0.4772	0.4772		0.4390	0.4390	0.0000	1,575.0565	1,575.0565	0.5094		1,587.7916
Total	**0.9018**	**9.2453**	**10.1761**	**0.0163**		**0.4772**	**0.4772**		**0.4390**	**0.4390**	**0.0000**	**1,575.0565**	**1,575.0565**	**0.5094**		**1,587.7916**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0232	0.0175	0.1899	4.8000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.5400	47.5400	1.7300e-003		47.5831
Total	**0.0296**	**0.2468**	**0.2462**	**1.0200e-003**	**0.0628**	**1.0700e-003**	**0.0639**	**0.0170**	**1.0100e-003**	**0.0180**		**104.6458**	**104.6458**	**3.8600e-003**		**104.7422**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058
Other Asphalt Surfaces	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		7.0000e-005	7.0000e-005	0.0000		8.0000e-005
Unmitigated	1.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		7.0000e-005	7.0000e-005	0.0000		8.0000e-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	lb/day										lb/day					
Architectural Coating	4.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2000e-004					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		7.0000e-005	7.0000e-005	0.0000		8.0000e-005
Total	**1.6000e-004**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**7.0000e-005**	**7.0000e-005**	**0.0000**		**8.0000e-005**

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	4.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2000e-004					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		7.0000e-005	7.0000e-005	0.0000		8.0000e-005
Total	**1.6000e-004**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**7.0000e-005**	**7.0000e-005**	**0.0000**		**8.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Beltz 12 Construction

Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	0.33	1000sqft	0.01	326.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Beltz 12 Construction

Land Use - Surrogate land uses for pipeline and pavement

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 11 CY of material assumed to be exported and 0.01 acres total assumed to be disturbed

Architectural Coating - Default

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	PhaseEndDate	11/22/2022	8/19/2022
tblConstructionPhase	PhaseEndDate	4/11/2023	9/2/2022
tblConstructionPhase	PhaseEndDate	8/29/2023	9/9/2022
tblConstructionPhase	PhaseEndDate	7/5/2022	7/11/2022
tblConstructionPhase	PhaseStartDate	7/6/2022	8/15/2022
tblConstructionPhase	PhaseStartDate	11/23/2022	8/29/2022
tblConstructionPhase	PhaseStartDate	4/12/2023	9/5/2022
tblGrading	AcresOfGrading	2.50	0.01
tblGrading	MaterialExported	0.00	11.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts

tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	13.00	8.00

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					
2022	1.9126	17.1696	20.5493	0.0366	0.1754	0.8592	1.0346	0.0474	0.8268	0.8743	0.0000	3,522.7322	3,522.7322	0.8227	0.0000	3,536.5230
Maximum	**1.9126**	**17.1696**	**20.5493**	**0.0366**	**0.1754**	**0.8592**	**1.0346**	**0.0474**	**0.8268**	**0.8743**	**0.0000**	**3,522.7322**	**3,522.7322**	**0.8227**	**0.0000**	**3,536.5230**

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					
2022	1.9126	17.1696	20.5493	0.0366	0.1754	0.8592	1.0346	0.0474	0.8268	0.8743	0.0000	3,522.7322	3,522.7322	0.8227	0.0000	3,536.5230
Maximum	**1.9126**	**17.1696**	**20.5493**	**0.0366**	**0.1754**	**0.8592**	**1.0346**	**0.0474**	**0.8268**	**0.8743**	**0.0000**	**3,522.7322**	**3,522.7322**	**0.8227**	**0.0000**	**3,536.5230**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	1.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		7.0000e-005	7.0000e-005	0.0000		8.0000e-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
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
Total	**1.6000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**0.0000**	**8.0000e-005**

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	1.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		7.0000e-005	7.0000e-005	0.0000		8.0000e-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
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
Total	**1.6000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**0.0000**	**8.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Mobilization	Site Preparation	7/5/2022	7/11/2022	5	5	
2	Injection line and conduit	Trenching	7/12/2022	7/25/2022	5	10	
3	Filters	Building Construction	7/25/2022	8/12/2022	5	15	
4	Wellhead piping	Building Construction	8/15/2022	8/19/2022	5	5	
5	Building equipment upgrades	Building Construction	8/22/2022	8/26/2022	5	5	
6	Facility startup and testing	Building Construction	8/29/2022	9/2/2022	5	5	
7	Final paving and demobilization	Building Construction	9/5/2022	9/9/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Filters	Cranes	1	4.00	231	0.29
Building equipment upgrades	Cranes	1	4.00	231	0.29
Filters	Forklifts	1	8.00	89	0.20
Building equipment upgrades	Forklifts	1	8.00	89	0.20
Filters	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Building equipment upgrades	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Injection line and conduit	Concrete/Industrial Saws	1	8.00	81	0.73
Injection line and conduit	Excavators	1	8.00	158	0.38
Injection line and conduit	Forklifts	1	8.00	89	0.20
Injection line and conduit	Pumps	1	8.00	84	0.74
Injection line and conduit	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Filters	Generator Sets	1	8.00	84	0.74
Wellhead piping	Generator Sets	1	8.00	84	0.74
Wellhead piping	Cranes	1	4.00	231	0.29
Wellhead piping	Forklifts	1	8.00	89	0.20
Building equipment upgrades	Generator Sets	1	8.00	84	0.74
Wellhead piping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Final paving and demobilization	Pavers	1	4.00	130	0.42
Final paving and demobilization	Paving Equipment	1	4.00	132	0.36
Final paving and demobilization	Rollers	1	4.00	80	0.38
Facility startup and testing	Cranes	1	4.00	231	0.29
Facility startup and testing	Forklifts	1	8.00	89	0.20
Facility startup and testing	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Final paving and demobilization	Cranes	1	4.00	231	0.29
Final paving and demobilization	Forklifts	1	8.00	89	0.20
Final paving and demobilization	Tractors/Loaders/Backhoes	2	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
Mobilization	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Filters	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building equipment upgrades	3	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Injection line and conduit	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead piping	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Final paving and demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Mobilization - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3100e-003	0.0000	2.3100e-003	2.6000e-004	0.0000	2.6000e-004			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**2.3100e-003**	**0.2573**	**0.2596**	**2.6000e-004**	**0.2367**	**0.2370**		**942.5179**	**942.5179**	**0.3048**		**950.1386**

Unmitigated Construction Off-Site

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

Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0400e-003	0.0000	1.0400e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**1.0400e-003**	**0.2573**	**0.2584**	**1.2000e-004**	**0.2367**	**0.2369**	**0.0000**	**942.5179**	**942.5179**	**0.3048**		**950.1386**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

3.3 Injection line and conduit - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1913	10.2849	14.0563	0.0227		0.5522	0.5522		0.5325	0.5325		2,167.0033	2,167.0033	0.3718		2,176.2981
Total	**1.1913**	**10.2849**	**14.0563**	**0.0227**		**0.5522**	**0.5522**		**0.5325**	**0.5325**		**2,167.0033**	**2,167.0033**	**0.3718**		**2,176.2981**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4600e-003	0.0586	0.0140	1.6000e-004	3.4600e-003	2.2000e-004	3.6900e-003	9.5000e-004	2.1000e-004	1.1600e-003		16.7936	16.7936	7.0000e-004		16.8112
Vendor	0.0135	0.4618	0.1278	1.0500e-003	0.0270	1.4400e-003	0.0284	7.7500e-003	1.3700e-003	9.1300e-003		111.7770	111.7770	4.5600e-003		111.8909
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0497**	**0.5495**	**0.3975**	**1.8200e-003**	**0.0962**	**2.1800e-003**	**0.0983**	**0.0261**	**2.0600e-003**	**0.0282**		**188.9653**	**188.9653**	**7.4900e-003**		**189.1524**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1913	10.2849	14.0563	0.0227		0.5522	0.5522		0.5325	0.5325	0.0000	2,167.0033	2,167.0033	0.3718		2,176.2981
Total	**1.1913**	**10.2849**	**14.0563**	**0.0227**		**0.5522**	**0.5522**		**0.5325**	**0.5325**	**0.0000**	**2,167.0033**	**2,167.0033**	**0.3718**		**2,176.2981**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4600e-003	0.0586	0.0140	1.6000e-004	3.4600e-003	2.2000e-004	3.6900e-003	9.5000e-004	2.1000e-004	1.1600e-003		16.7936	16.7936	7.0000e-004		16.8112
Vendor	0.0135	0.4618	0.1278	1.0500e-003	0.0270	1.4400e-003	0.0284	7.7500e-003	1.3700e-003	9.1300e-003		111.7770	111.7770	4.5600e-003		111.8909
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0497**	**0.5495**	**0.3975**	**1.8200e-003**	**0.0962**	**2.1800e-003**	**0.0983**	**0.0261**	**2.0600e-003**	**0.0282**		**188.9653**	**188.9653**	**7.4900e-003**		**189.1524**

3.4 Filters - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911		1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**		**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911	0.0000	1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**	**0.0000**	**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

3.5 Wellhead piping - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911		1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**		**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911	0.0000	1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**	**0.0000**	**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

3.6 Building equipment upgrades - 2022

Unmitigated Construction On-Site

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

Category	lb/day										lb/day					
Off-Road	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911		1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**		**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.8300e-003	0.2344	0.0558	6.3000e-004	0.0139	8.9000e-004	0.0148	3.7900e-003	8.5000e-004	4.6400e-003		67.1746	67.1746	2.8000e-003		67.2446
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0473**	**0.4944**	**0.3755**	**1.7700e-003**	**0.0931**	**2.1300e-003**	**0.0952**	**0.0251**	**2.0200e-003**	**0.0271**		**183.4577**	**183.4577**	**7.3100e-003**		**183.6405**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6301	6.0753	5.7759	0.0110		0.3037	0.3037		0.2911	0.2911	0.0000	1,050.4806	1,050.4806	0.1679		1,054.6767
Total	**0.6301**	**6.0753**	**5.7759**	**0.0110**		**0.3037**	**0.3037**		**0.2911**	**0.2911**	**0.0000**	**1,050.4806**	**1,050.4806**	**0.1679**		**1,054.6767**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.8300e-003	0.2344	0.0558	6.3000e-004	0.0139	8.9000e-004	0.0148	3.7900e-003	8.5000e-004	4.6400e-003		67.1746	67.1746	2.8000e-003		67.2446
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0473**	**0.4944**	**0.3755**	**1.7700e-003**	**0.0931**	**2.1300e-003**	**0.0952**	**0.0251**	**2.0200e-003**	**0.0271**		**183.4577**	**183.4577**	**7.3100e-003**		**183.6405**

3.7 Facility startup and testing - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6295	6.4983	6.5758	0.0106		0.3370	0.3370		0.3100	0.3100		1,029.9239	1,029.9239	0.3331		1,038.2514
Total	**0.6295**	**6.4983**	**6.5758**	**0.0106**		**0.3370**	**0.3370**		**0.3100**	**0.3100**		**1,029.9239**	**1,029.9239**	**0.3331**		**1,038.2514**

Unmitigated Construction Off-Site

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

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0261	0.0218	0.1918	4.6000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		45.2960	45.2960	1.6700e-003		45.3378
Total	**0.0328**	**0.2527**	**0.2557**	**9.9000e-004**	**0.0628**	**1.1100e-003**	**0.0639**	**0.0170**	**1.0500e-003**	**0.0180**		**101.1845**	**101.1845**	**3.9500e-003**		**101.2832**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6295	6.4983	6.5758	0.0106		0.3370	0.3370		0.3100	0.3100	0.0000	1,029.9239	1,029.9239	0.3331		1,038.2514
Total	**0.6295**	**6.4983**	**6.5758**	**0.0106**		**0.3370**	**0.3370**		**0.3100**	**0.3100**	**0.0000**	**1,029.9239**	**1,029.9239**	**0.3331**		**1,038.2514**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0261	0.0218	0.1918	4.6000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		45.2960	45.2960	1.6700e-003		45.3378

Total	**0.0328**	**0.2527**	**0.2557**	**9.9000e-004**	**0.0628**	**1.1100e-003**	**0.0639**	**0.0170**	**1.0500e-003**	**0.0180**		**101.1845**	**101.1845**	**3.9500e-003**		**101.2832**

3.8 Final paving and demobilization - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9018	9.2453	10.1761	0.0163		0.4772	0.4772		0.4390	0.4390		1,575.0565	1,575.0565	0.5094		1,587.7916
Total	**0.9018**	**9.2453**	**10.1761**	**0.0163**		**0.4772**	**0.4772**		**0.4390**	**0.4390**		**1,575.0565**	**1,575.0565**	**0.5094**		**1,587.7916**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0261	0.0218	0.1918	4.6000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		45.2960	45.2960	1.6700e-003		45.3378
Total	**0.0328**	**0.2527**	**0.2557**	**9.9000e-004**	**0.0628**	**1.1100e-003**	**0.0639**	**0.0170**	**1.0500e-003**	**0.0180**		**101.1845**	**101.1845**	**3.9500e-003**		**101.2832**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9018	9.2453	10.1761	0.0163		0.4772	0.4772		0.4390	0.4390	0.0000	1,575.0565	1,575.0565	0.5094		1,587.7916
Total	**0.9018**	**9.2453**	**10.1761**	**0.0163**		**0.4772**	**0.4772**		**0.4390**	**0.4390**	**0.0000**	**1,575.0565**	**1,575.0565**	**0.5094**		**1,587.7916**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0261	0.0218	0.1918	4.6000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		45.2960	45.2960	1.6700e-003		45.3378
Total	**0.0328**	**0.2527**	**0.2557**	**9.9000e-004**	**0.0628**	**1.1100e-003**	**0.0639**	**0.0170**	**1.0500e-003**	**0.0180**		**101.1845**	**101.1845**	**3.9500e-003**		**101.2832**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058
Other Asphalt Surfaces	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		7.0000e-005	7.0000e-005	0.0000		8.0000e-005
Unmitigated	1.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		7.0000e-005	7.0000e-005	0.0000		8.0000e-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	lb/day										lb/day					
Architectural Coating	4.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2000e-004					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		7.0000e-005	7.0000e-005	0.0000		8.0000e-005
Total	**1.6000e-004**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**7.0000e-005**	**7.0000e-005**	**0.0000**		**8.0000e-005**

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	4.0000e-005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2000e-004					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		7.0000e-005	7.0000e-005	0.0000		8.0000e-005
Total	**1.6000e-004**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**7.0000e-005**	**7.0000e-005**	**0.0000**		**8.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Monitoring Well Construction
Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.10	1000sqft	0.00	100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Monitoring Well

Land Use - Surrogate land use for monitoring well

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 12 CY of material export assumed for a monitoring well

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Solid Waste - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	50	0
tblAreaCoating	Area_Nonresidential_Interior	150	0
tblConstructionPhase	NumDays	0.00	30.00
tblConstructionPhase	NumDays	0.00	10.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.01
tblGrading	MaterialExported	0.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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		Monitoring well development
tblOffRoadEquipment	PhaseName		Site prep and conductor casings install
tblOffRoadEquipment	PhaseName		Well drilling and construction
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Well drilling and construction
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.12	0.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	23,125.00	0.00

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					
2024	0.0424	0.3832	0.5003	1.1500e-003	1.9100e-003	0.0164	0.0183	5.1000e-004	0.0156	0.0161	0.0000	100.4891	100.4891	0.0234	0.0000	101.0734
Maximum	**0.0424**	**0.3832**	**0.5003**	**1.1500e-003**	**1.9100e-003**	**0.0164**	**0.0183**	**5.1000e-004**	**0.0156**	**0.0161**	**0.0000**	**100.4891**	**100.4891**	**0.0234**	**0.0000**	**101.0734**

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					
2024	0.0424	0.3832	0.5003	1.1500e-003	1.9100e-003	0.0164	0.0183	5.1000e-004	0.0156	0.0161	0.0000	100.4889	100.4889	0.0234	0.0000	101.0733
Maximum	**0.0424**	**0.3832**	**0.5003**	**1.1500e-003**	**1.9100e-003**	**0.0164**	**0.0183**	**5.1000e-004**	**0.0156**	**0.0161**	**0.0000**	**100.4889**	**100.4889**	**0.0234**	**0.0000**	**101.0733**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.06**	**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)
17	**6-1-2024**	**8-31-2024**	0.3804	0.3804

18	**9-1-2024**	**9-30-2024**	0.0113	0.0113
		Highest	0.3804	0.3804

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	3.9000e-004	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	**3.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated 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	3.9000e-004	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	**3.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site prep and conductor casings install	Site Preparation	7/1/2024	7/5/2024	5	5	
2	Well drilling and construction	Building Construction	7/8/2024	8/16/2024	5	30	
3	Monitoring well development	Building Construction	8/19/2024	8/30/2024	5	10	
4	Well equipment demobil and cleanup	Building Construction	9/2/2024	9/6/2024	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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site prep and conductor casings install	Bore/Drill Rigs	1	8.00	221	0.50
Site prep and conductor casings install	Graders	1	8.00	187	0.41
Site prep and conductor casings install	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Well drilling and construction	Bore/Drill Rigs	1	24.00	221	0.50
Well drilling and construction	Cranes	0	0.00	231	0.29
Well drilling and construction	Forklifts	1	24.00	89	0.20
Well drilling and construction	Pumps	1	24.00	84	0.74
Well drilling and construction	Tractors/Loaders/Backhoes	1	24.00	97	0.37

Monitoring well development	Air Compressors	1	8.00	78	0.48
Monitoring well development	Bore/Drill Rigs	1	8.00	221	0.50
Monitoring well development	Cranes	0	0.00	231	0.29
Monitoring well development	Forklifts	1	8.00	89	0.20
Monitoring well development	Generator Sets	1	8.00	84	0.74
Monitoring well development	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well equipment demobil and cleanup	Cranes	1	4.00	231	0.29
Well equipment demobil and cleanup	Forklifts	1	8.00	89	0.20
Well equipment demobil and cleanup	Tractors/Loaders/Backhoes	2	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
Site prep and conductor casings	4	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well drilling and construction	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Monitoring well development	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well equipment demobil and cleanup	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site prep and conductor casings install - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1300e-003	0.0224	0.0204	6.0000e-005		8.3000e-004	8.3000e-004		7.6000e-004	7.6000e-004	0.0000	4.9020	4.9020	1.5900e-003	0.0000	4.9416

Total	**2.1300e-003**	**0.0224**	**0.0204**	**6.0000e-005**	**1.0000e-005**	**8.3000e-004**	**8.4000e-004**	**0.0000**	**7.6000e-004**	**7.6000e-004**	**0.0000**	**4.9020**	**4.9020**	**1.5900e-003**	**0.0000**	**4.9416**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271
Total	**8.0000e-005**	**5.2000e-004**	**6.4000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2525**	**0.2525**	**0.0000**	**0.0000**	**0.2527**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1300e-003	0.0224	0.0204	6.0000e-005		8.3000e-004	8.3000e-004		7.6000e-004	7.6000e-004	0.0000	4.9020	4.9020	1.5900e-003	0.0000	4.9416
Total	**2.1300e-003**	**0.0224**	**0.0204**	**6.0000e-005**	**0.0000**	**8.3000e-004**	**8.3000e-004**	**0.0000**	**7.6000e-004**	**7.6000e-004**	**0.0000**	**4.9020**	**4.9020**	**1.5900e-003**	**0.0000**	**4.9416**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271
Total	**8.0000e-005**	**5.2000e-004**	**6.4000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2525**	**0.2525**	**0.0000**	**0.0000**	**0.2527**

3.3 Well drilling and construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0340	0.3065	0.4110	9.3000e-004		0.0134	0.0134		0.0127	0.0127	0.0000	81.2464	81.2464	0.0192	0.0000	81.7256
Total	**0.0340**	**0.3065**	**0.4110**	**9.3000e-004**		**0.0134**	**0.0134**		**0.0127**	**0.0127**	**0.0000**	**81.2464**	**81.2464**	**0.0192**	**0.0000**	**81.7256**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0745
Vendor	7.0000e-005	2.8300e-003	7.6000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7526	0.7526	3.0000e-005	0.0000	0.7532

Worker	4.1000e-004	3.2000e-004	3.0900e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.7623	0.7623	2.0000e-005	0.0000	0.7629
Total	**4.9000e-004**	**3.3700e-003**	**3.9100e-003**	**2.0000e-005**	**1.1700e-003**	**2.0000e-005**	**1.1800e-003**	**3.1000e-004**	**2.0000e-005**	**3.3000e-004**	**0.0000**	**1.5892**	**1.5892**	**5.0000e-005**	**0.0000**	**1.5906**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0340	0.3065	0.4110	9.3000e-004		0.0134	0.0134		0.0127	0.0127	0.0000	81.2463	81.2463	0.0192	0.0000	81.7255
Total	**0.0340**	**0.3065**	**0.4110**	**9.3000e-004**		**0.0134**	**0.0134**		**0.0127**	**0.0127**	**0.0000**	**81.2463**	**81.2463**	**0.0192**	**0.0000**	**81.7255**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0745
Vendor	7.0000e-005	2.8300e-003	7.6000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7526	0.7526	3.0000e-005	0.0000	0.7532
Worker	4.1000e-004	3.2000e-004	3.0900e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.7623	0.7623	2.0000e-005	0.0000	0.7629
Total	**4.9000e-004**	**3.3700e-003**	**3.9100e-003**	**2.0000e-005**	**1.1700e-003**	**2.0000e-005**	**1.1800e-003**	**3.1000e-004**	**2.0000e-005**	**3.3000e-004**	**0.0000**	**1.5892**	**1.5892**	**5.0000e-005**	**0.0000**	**1.5906**

3.4 Monitoring well development - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.1500e-003	0.0348	0.0463	1.1000e-004		1.5300e-003	1.5300e-003		1.4800e-003	1.4800e-003	0.0000	9.3608	9.3608	1.7700e-003	0.0000	9.4051
Total	**4.1500e-003**	**0.0348**	**0.0463**	**1.1000e-004**		**1.5300e-003**	**1.5300e-003**		**1.4800e-003**	**1.4800e-003**	**0.0000**	**9.3608**	**9.3608**	**1.7700e-003**	**0.0000**	**9.4051**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0745
Vendor	2.0000e-005	9.4000e-004	2.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2509	0.2509	1.0000e-005	0.0000	0.2511
Worker	1.4000e-004	1.1000e-004	1.0300e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2541	0.2541	1.0000e-005	0.0000	0.2543
Total	**1.7000e-004**	**1.2700e-003**	**1.3400e-003**	**0.0000**	**4.1000e-004**	**0.0000**	**4.1000e-004**	**1.0000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.5793**	**0.5793**	**2.0000e-005**	**0.0000**	**0.5798**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.1500e-003	0.0348	0.0463	1.1000e-004		1.5300e-003	1.5300e-003		1.4800e-003	1.4800e-003	0.0000	9.3607	9.3607	1.7700e-003	0.0000	9.4051

Total	**4.1500e-003**	**0.0348**	**0.0463**	**1.1000e-004**		**1.5300e-003**	**1.5300e-003**		**1.4800e-003**	**1.4800e-003**	**0.0000**	**9.3607**	**9.3607**	**1.7700e-003**	**0.0000**	**9.4051**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0745
Vendor	2.0000e-005	9.4000e-004	2.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2509	0.2509	1.0000e-005	0.0000	0.2511
Worker	1.4000e-004	1.1000e-004	1.0300e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2541	0.2541	1.0000e-005	0.0000	0.2543
Total	**1.7000e-004**	**1.2700e-003**	**1.3400e-003**	**0.0000**	**4.1000e-004**	**0.0000**	**4.1000e-004**	**1.0000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.5793**	**0.5793**	**2.0000e-005**	**0.0000**	**0.5798**

3.5 Well equipment demobil and cleanup - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3700e-003	0.0138	0.0162	3.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.3382	2.3382	7.6000e-004	0.0000	2.3571
Total	**1.3700e-003**	**0.0138**	**0.0162**	**3.0000e-005**		**6.4000e-004**	**6.4000e-004**		**5.9000e-004**	**5.9000e-004**	**0.0000**	**2.3382**	**2.3382**	**7.6000e-004**	**0.0000**	**2.3571**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255
Worker	5.0000e-005	4.0000e-005	3.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0953	0.0953	0.0000	0.0000	0.0954
Total	**6.0000e-005**	**5.1000e-004**	**5.2000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2207**	**0.2207**	**0.0000**	**0.0000**	**0.2209**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3700e-003	0.0138	0.0162	3.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.3382	2.3382	7.6000e-004	0.0000	2.3571
Total	**1.3700e-003**	**0.0138**	**0.0162**	**3.0000e-005**		**6.4000e-004**	**6.4000e-004**		**5.9000e-004**	**5.9000e-004**	**0.0000**	**2.3382**	**2.3382**	**7.6000e-004**	**0.0000**	**2.3571**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255
Worker	5.0000e-005	4.0000e-005	3.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0953	0.0953	0.0000	0.0000	0.0954
Total	**6.0000e-005**	**5.1000e-004**	**5.2000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2207**	**0.2207**	**0.0000**	**0.0000**	**0.2209**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.586012	0.026671	0.206176	0.113932	0.017728	0.004552	0.021301	0.012716	0.001229	0.002351	0.005430	0.000986	0.000914

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.9000e-004	0.0000	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	3.9000e-004	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 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	3.9000e-004					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	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9000e-004**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	ROG	NOx	CO	SO2	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	3.9000e-004					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	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9000e-004**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Monitoring Well Construction
Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.10	1000sqft	0.00	100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Monitoring Well

Land Use - Surrogate land use for monitoring well

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - 12 CY of material export assumed for a monitoring well

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Solid Waste - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	50	0
tblAreaCoating	Area_Nonresidential_Interior	150	0
tblConstructionPhase	NumDays	0.00	30.00
tblConstructionPhase	NumDays	0.00	10.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.01
tblGrading	MaterialExported	0.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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		Monitoring well development
tblOffRoadEquipment	PhaseName		Site prep and conductor casings install
tblOffRoadEquipment	PhaseName		Well drilling and construction
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Well drilling and construction
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.12	0.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	23,125.00	0.00

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					
2024	2.2958	20.6542	27.6641	0.0633	0.0827	0.8932	0.9736	0.0223	0.8499	0.8715	0.0000	6,090.6377	6,090.6377	1.4127	0.0000	6,125.9551
Maximum	**2.2958**	**20.6542**	**27.6641**	**0.0633**	**0.0827**	**0.8932**	**0.9736**	**0.0223**	**0.8499**	**0.8715**	**0.0000**	**6,090.6377**	**6,090.6377**	**1.4127**	**0.0000**	**6,125.9551**

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					
2024	2.2958	20.6542	27.6641	0.0633	0.0827	0.8932	0.9736	0.0223	0.8499	0.8715	0.0000	6,090.6377	6,090.6377	1.4127	0.0000	6,125.9551
Maximum	**2.2958**	**20.6542**	**27.6641**	**0.0633**	**0.0827**	**0.8932**	**0.9736**	**0.0223**	**0.8499**	**0.8715**	**0.0000**	**6,090.6377**	**6,090.6377**	**1.4127**	**0.0000**	**6,125.9551**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	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
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
Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**	**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**

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	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	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
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
Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**	**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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site prep and conductor casings install	Site Preparation	7/1/2024	7/5/2024	5	5	
2	Well drilling and construction	Building Construction	7/8/2024	8/16/2024	5	30	
3	Monitoring well development	Building Construction	8/19/2024	8/30/2024	5	10	
4	Well equipment demobil and cleanup	Building Construction	9/2/2024	9/6/2024	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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site prep and conductor casings install	Bore/Drill Rigs	1	8.00	221	0.50
Site prep and conductor casings install	Graders	1	8.00	187	0.41
Site prep and conductor casings install	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Well drilling and construction	Bore/Drill Rigs	1	24.00	221	0.50
Well drilling and construction	Cranes	0	0.00	231	0.29
Well drilling and construction	Forklifts	1	24.00	89	0.20
Well drilling and construction	Pumps	1	24.00	84	0.74
Well drilling and construction	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Monitoring well development	Air Compressors	1	8.00	78	0.48
Monitoring well development	Bore/Drill Rigs	1	8.00	221	0.50
Monitoring well development	Cranes	0	0.00	231	0.29
Monitoring well development	Forklifts	1	8.00	89	0.20
Monitoring well development	Generator Sets	1	8.00	84	0.74
Monitoring well development	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well equipment demobil and cleanup	Cranes	1	4.00	231	0.29
Well equipment demobil and cleanup	Forklifts	1	8.00	89	0.20
Well equipment demobil and cleanup	Tractors/Loaders/Backhoes	2	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
Site prep and conductor casings	4	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well drilling and construction	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Monitoring well development	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well equipment demobil and cleanup	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site prep and conductor casings install - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3300e-003	0.0000	2.3300e-003	2.6000e-004	0.0000	2.6000e-004			0.0000			0.0000
Off-Road	0.8530	8.9532	8.1660	0.0223		0.3303	0.3303		0.3039	0.3039		2,161.4043	2,161.4043	0.6990		2,178.8803
Total	**0.8530**	**8.9532**	**8.1660**	**0.0223**	**2.3300e-003**	**0.3303**	**0.3327**	**2.6000e-004**	**0.3039**	**0.3042**		**2,161.4043**	**2,161.4043**	**0.6990**		**2,178.8803**

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0319**	**0.2061**	**0.2609**	**1.1200e-003**	**0.0792**	**8.4000e-004**	**0.0801**	**0.0213**	**7.9000e-004**	**0.0221**		**114.5517**	**114.5517**	**3.7600e-003**		**114.6456**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0500e-003	0.0000	1.0500e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	0.8530	8.9532	8.1660	0.0223		0.3303	0.3303		0.3039	0.3039	0.0000	2,161.4043	2,161.4043	0.6990		2,178.8803
Total	**0.8530**	**8.9532**	**8.1660**	**0.0223**	**1.0500e-003**	**0.3303**	**0.3314**	**1.2000e-004**	**0.3039**	**0.3040**	**0.0000**	**2,161.4043**	**2,161.4043**	**0.6990**		**2,178.8803**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0319**	**0.2061**	**0.2609**	**1.1200e-003**	**0.0792**	**8.4000e-004**	**0.0801**	**0.0213**	**7.9000e-004**	**0.0221**		**114.5517**	**114.5517**	**3.7600e-003**		**114.6456**

3.3 Well drilling and construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2635	20.4339	27.3992	0.0621		0.8923	0.8923		0.8491	0.8491		5,970.5864	5,970.5864	1.4087		6,005.8046
Total	**2.2635**	**20.4339**	**27.3992**	**0.0621**		**0.8923**	**0.8923**		**0.8491**	**0.8491**		**5,970.5864**	**5,970.5864**	**1.4087**		**6,005.8046**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.6000e-004	0.0143	4.0100e-003	5.0000e-005	1.1600e-003	4.0000e-005	1.2000e-003	3.2000e-004	4.0000e-005	3.5000e-004		5.4996	5.4996	2.1000e-004		5.5050
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0322**	**0.2204**	**0.2649**	**1.1700e-003**	**0.0804**	**8.8000e-004**	**0.0813**	**0.0216**	**8.3000e-004**	**0.0225**		**120.0513**	**120.0513**	**3.9700e-003**		**120.1506**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2635	20.4339	27.3992	0.0621		0.8923	0.8923		0.8491	0.8491	0.0000	5,970.5864	5,970.5864	1.4087		6,005.8046
Total	**2.2635**	**20.4339**	**27.3992**	**0.0621**		**0.8923**	**0.8923**		**0.8491**	**0.8491**	**0.0000**	**5,970.5864**	**5,970.5864**	**1.4087**		**6,005.8046**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.6000e-004	0.0143	4.0100e-003	5.0000e-005	1.1600e-003	4.0000e-005	1.2000e-003	3.2000e-004	4.0000e-005	3.5000e-004		5.4996	5.4996	2.1000e-004		5.5050
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0322**	**0.2204**	**0.2649**	**1.1700e-003**	**0.0804**	**8.8000e-004**	**0.0813**	**0.0216**	**8.3000e-004**	**0.0225**		**120.0513**	**120.0513**	**3.9700e-003**		**120.1506**

3.4 Monitoring well development - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8308	6.9541	9.2551	0.0216		0.3056	0.3056		0.2965	0.2965		2,063.6928	2,063.6928	0.3909		2,073.4657
Total	**0.8308**	**6.9541**	**9.2551**	**0.0216**		**0.3056**	**0.3056**		**0.2965**	**0.2965**		**2,063.6928**	**2,063.6928**	**0.3909**		**2,073.4657**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0700e-003	0.0429	0.0120	1.5000e-004	3.4700e-003	1.2000e-004	3.5900e-003	9.5000e-004	1.2000e-004	1.0600e-003		16.4988	16.4988	6.4000e-004		16.5149
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0329**	**0.2489**	**0.2729**	**1.2700e-003**	**0.0827**	**9.6000e-004**	**0.0836**	**0.0223**	**9.1000e-004**	**0.0232**		**131.0504**	**131.0504**	**4.4000e-003**		**131.1605**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8308	6.9541	9.2551	0.0216		0.3056	0.3056		0.2965	0.2965	0.0000	2,063.6928	2,063.6928	0.3909		2,073.4657
Total	**0.8308**	**6.9541**	**9.2551**	**0.0216**		**0.3056**	**0.3056**		**0.2965**	**0.2965**	**0.0000**	**2,063.6928**	**2,063.6928**	**0.3909**		**2,073.4657**

Mitigated Construction Off-Site

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

Category	lb/day											lb/day					
Hauling	1.0700e-003	0.0429	0.0120	1.5000e-004	3.4700e-003	1.2000e-004	3.5900e-003	9.5000e-004	1.2000e-004	1.0600e-003		16.4988	16.4988	6.4000e-004		16.5149
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0329**	**0.2489**	**0.2729**	**1.2700e-003**	**0.0827**	**9.6000e-004**	**0.0836**	**0.0223**	**9.1000e-004**	**0.0232**		**131.0504**	**131.0504**	**4.4000e-003**		**131.1605**

3.5 Well equipment demobil and cleanup - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5479	5.5322	6.4979	0.0107		0.2569	0.2569		0.2363	0.2363		1,030.9680	1,030.9680	0.3334		1,039.3039
Total	**0.5479**	**5.5322**	**6.4979**	**0.0107**		**0.2569**	**0.2569**		**0.2363**	**0.2363**		**1,030.9680**	**1,030.9680**	**0.3334**		**1,039.3039**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0203	0.0142	0.1601	4.4000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		44.0558	44.0558	1.3900e-003		44.0905

Total	**0.0251**	**0.2014**	**0.2075**	**9.7000e-004**	**0.0628**	**7.2000e-004**	**0.0635**	**0.0170**	**6.8000e-004**	**0.0176**		**99.8664**	**99.8664**	**3.3000e-003**		**99.9488**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5479	5.5322	6.4979	0.0107		0.2569	0.2569		0.2363	0.2363	0.0000	1,030.9680	1,030.9680	0.3334		1,039.3039
Total	**0.5479**	**5.5322**	**6.4979**	**0.0107**		**0.2569**	**0.2569**		**0.2363**	**0.2363**	**0.0000**	**1,030.9680**	**1,030.9680**	**0.3334**		**1,039.3039**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0203	0.0142	0.1601	4.4000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		44.0558	44.0558	1.3900e-003		44.0905
Total	**0.0251**	**0.2014**	**0.2075**	**9.7000e-004**	**0.0628**	**7.2000e-004**	**0.0635**	**0.0170**	**6.8000e-004**	**0.0176**		**99.8664**	**99.8664**	**3.3000e-003**		**99.9488**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.586012	0.026671	0.206176	0.113932	0.017728	0.004552	0.021301	0.012716	0.001229	0.002351	0.005430	0.000986	0.000914

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	0.0000		2.0000e-005
Unmitigated	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1400e-003					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		2.0000e-005	2.0000e-005	0.0000		2.0000e-005

Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.0000e-005**	**2.0000e-005**	**0.0000**		**2.0000e-005**

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	2.1400e-003					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		2.0000e-005	2.0000e-005	0.0000		2.0000e-005
Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.0000e-005**	**2.0000e-005**	**0.0000**		**2.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Monitoring Well Construction
Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.10	1000sqft	0.00	100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Monitoring Well
Land Use - Surrogate land use for monitoring well
Construction Phase - Construction schedule based on City input
Off-road Equipment - Equipment based on City input
Trips and VMT - Construction vehicle information based on City input
Grading - 12 CY of material export assumed for a monitoring well
Vehicle Trips - Modeling construction only
Consumer Products - Modeling construction only
Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Solid Waste - Modeling construction only

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	50	0
tblAreaCoating	Area_Nonresidential_Interior	150	0
tblConstructionPhase	NumDays	0.00	30.00
tblConstructionPhase	NumDays	0.00	10.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.01
tblGrading	MaterialExported	0.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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		Monitoring well development
tblOffRoadEquipment	PhaseName		Site prep and conductor casings install
tblOffRoadEquipment	PhaseName		Well drilling and construction
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Monitoring well development
tblOffRoadEquipment	PhaseName		Well drilling and construction
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.12	0.00
tblTripsAndVMT	HaulingTripNumber	2.00	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	23,125.00	0.00

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					
2024	2.2995	20.6599	27.6712	0.0632	0.0827	0.8932	0.9736	0.0223	0.8499	0.8716	0.0000	6,086.5850	6,086.5850	1.4128	0.0000	6,121.9040
Maximum	**2.2995**	**20.6599**	**27.6712**	**0.0632**	**0.0827**	**0.8932**	**0.9736**	**0.0223**	**0.8499**	**0.8716**	**0.0000**	**6,086.5850**	**6,086.5850**	**1.4128**	**0.0000**	**6,121.9040**

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					
2024	2.2995	20.6599	27.6712	0.0632	0.0827	0.8932	0.9736	0.0223	0.8499	0.8716	0.0000	6,086.5850	6,086.5850	1.4128	0.0000	6,121.9040
Maximum	**2.2995**	**20.6599**	**27.6712**	**0.0632**	**0.0827**	**0.8932**	**0.9736**	**0.0223**	**0.8499**	**0.8716**	**0.0000**	**6,086.5850**	**6,086.5850**	**1.4128**	**0.0000**	**6,121.9040**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	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
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
Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**	**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**

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	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	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
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
Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**	**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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site prep and conductor casings install	Site Preparation	7/1/2024	7/5/2024	5	5	
2	Well drilling and construction	Building Construction	7/8/2024	8/16/2024	5	30	
3	Monitoring well development	Building Construction	8/19/2024	8/30/2024	5	10	
4	Well equipment demobil and cleanup	Building Construction	9/2/2024	9/6/2024	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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site prep and conductor casings install	Bore/Drill Rigs	1	8.00	221	0.50
Site prep and conductor casings install	Graders	1	8.00	187	0.41
Site prep and conductor casings install	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Well drilling and construction	Bore/Drill Rigs	1	24.00	221	0.50
Well drilling and construction	Cranes	0	0.00	231	0.29
Well drilling and construction	Forklifts	1	24.00	89	0.20
Well drilling and construction	Pumps	1	24.00	84	0.74
Well drilling and construction	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Monitoring well development	Air Compressors	1	8.00	78	0.48
Monitoring well development	Bore/Drill Rigs	1	8.00	221	0.50
Monitoring well development	Cranes	0	0.00	231	0.29
Monitoring well development	Forklifts	1	8.00	89	0.20
Monitoring well development	Generator Sets	1	8.00	84	0.74
Monitoring well development	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well equipment demobil and cleanup	Cranes	1	4.00	231	0.29
Well equipment demobil and cleanup	Forklifts	1	8.00	89	0.20
Well equipment demobil and cleanup	Tractors/Loaders/Backhoes	2	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
Site prep and conductor casings	4	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well drilling and construction	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Monitoring well development	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well equipment demobil and cleanup	4	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site prep and conductor casings install - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3300e-003	0.0000	2.3300e-003	2.6000e-004	0.0000	2.6000e-004			0.0000			0.0000
Off-Road	0.8530	8.9532	8.1660	0.0223		0.3303	0.3303		0.3039	0.3039		2,161.4043	2,161.4043	0.6990		2,178.8803
Total	**0.8530**	**8.9532**	**8.1660**	**0.0223**	**2.3300e-003**	**0.3303**	**0.3327**	**2.6000e-004**	**0.3039**	**0.3042**		**2,161.4043**	**2,161.4043**	**0.6990**		**2,178.8803**

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0356**	**0.2115**	**0.2678**	**1.0700e-003**	**0.0792**	**8.6000e-004**	**0.0801**	**0.0213**	**8.1000e-004**	**0.0221**		**110.5756**	**110.5756**	**3.8100e-003**		**110.6710**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0500e-003	0.0000	1.0500e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	0.8530	8.9532	8.1660	0.0223		0.3303	0.3303		0.3039	0.3039	0.0000	2,161.4043	2,161.4043	0.6990		2,178.8803
Total	**0.8530**	**8.9532**	**8.1660**	**0.0223**	**1.0500e-003**	**0.3303**	**0.3314**	**1.2000e-004**	**0.3039**	**0.3040**	**0.0000**	**2,161.4043**	**2,161.4043**	**0.6990**		**2,178.8803**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0356**	**0.2115**	**0.2678**	**1.0700e-003**	**0.0792**	**8.6000e-004**	**0.0801**	**0.0213**	**8.1000e-004**	**0.0221**		**110.5756**	**110.5756**	**3.8100e-003**		**110.6710**

3.3 Well drilling and construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2635	20.4339	27.3992	0.0621		0.8923	0.8923		0.8491	0.8491		5,970.5864	5,970.5864	1.4087		6,005.8046
Total	**2.2635**	**20.4339**	**27.3992**	**0.0621**		**0.8923**	**0.8923**		**0.8491**	**0.8491**		**5,970.5864**	**5,970.5864**	**1.4087**		**6,005.8046**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7000e-004	0.0145	4.2000e-003	5.0000e-005	1.1600e-003	4.0000e-005	1.2000e-003	3.2000e-004	4.0000e-005	3.6000e-004		5.4229	5.4229	2.2000e-004		5.4285
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0360**	**0.2260**	**0.2720**	**1.1200e-003**	**0.0804**	**9.0000e-004**	**0.0813**	**0.0216**	**8.5000e-004**	**0.0225**		**115.9986**	**115.9986**	**4.0300e-003**		**116.0994**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2635	20.4339	27.3992	0.0621		0.8923	0.8923		0.8491	0.8491	0.0000	5,970.5864	5,970.5864	1.4087		6,005.8046
Total	**2.2635**	**20.4339**	**27.3992**	**0.0621**		**0.8923**	**0.8923**		**0.8491**	**0.8491**	**0.0000**	**5,970.5864**	**5,970.5864**	**1.4087**		**6,005.8046**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7000e-004	0.0145	4.2000e-003	5.0000e-005	1.1600e-003	4.0000e-005	1.2000e-003	3.2000e-004	4.0000e-005	3.6000e-004		5.4229	5.4229	2.2000e-004		5.4285
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0360**	**0.2260**	**0.2720**	**1.1200e-003**	**0.0804**	**9.0000e-004**	**0.0813**	**0.0216**	**8.5000e-004**	**0.0225**		**115.9986**	**115.9986**	**4.0300e-003**		**116.0994**

3.4 Monitoring well development - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8308	6.9541	9.2551	0.0216		0.3056	0.3056		0.2965	0.2965		2,063.6928	2,063.6928	0.3909		2,073.4657
Total	**0.8308**	**6.9541**	**9.2551**	**0.0216**		**0.3056**	**0.3056**		**0.2965**	**0.2965**		**2,063.6928**	**2,063.6928**	**0.3909**		**2,073.4657**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1000e-003	0.0435	0.0126	1.5000e-004	3.4700e-003	1.3000e-004	3.5900e-003	9.5000e-004	1.2000e-004	1.0700e-003		16.2688	16.2688	6.6000e-004		16.2854
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0367**	**0.2550**	**0.2804**	**1.2200e-003**	**0.0827**	**9.9000e-004**	**0.0837**	**0.0223**	**9.3000e-004**	**0.0232**		**126.8444**	**126.8444**	**4.4700e-003**		**126.9564**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8308	6.9541	9.2551	0.0216		0.3056	0.3056		0.2965	0.2965	0.0000	2,063.6928	2,063.6928	0.3909		2,073.4657
Total	**0.8308**	**6.9541**	**9.2551**	**0.0216**		**0.3056**	**0.3056**		**0.2965**	**0.2965**	**0.0000**	**2,063.6928**	**2,063.6928**	**0.3909**		**2,073.4657**

Mitigated Construction Off-Site

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

Category	lb/day											lb/day					
Hauling	1.1000e-003	0.0435	0.0126	1.5000e-004	3.4700e-003	1.3000e-004	3.5900e-003	9.5000e-004	1.2000e-004	1.0700e-003		16.2688	16.2688	6.6000e-004		16.2854
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0367**	**0.2550**	**0.2804**	**1.2200e-003**	**0.0827**	**9.9000e-004**	**0.0837**	**0.0223**	**9.3000e-004**	**0.0232**		**126.8444**	**126.8444**	**4.4700e-003**		**126.9564**

3.5 Well equipment demobil and cleanup - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5479	5.5322	6.4979	0.0107		0.2569	0.2569		0.2363	0.2363		1,030.9680	1,030.9680	0.3334		1,039.3039
Total	**0.5479**	**5.5322**	**6.4979**	**0.0107**		**0.2569**	**0.2569**		**0.2363**	**0.2363**		**1,030.9680**	**1,030.9680**	**0.3334**		**1,039.3039**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0229	0.0176	0.1607	4.2000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		41.9767	41.9767	1.3400e-003		42.0101

Total	**0.0280**	**0.2056**	**0.2143**	**9.3000e-004**	**0.0628**	**7.4000e-004**	**0.0635**	**0.0170**	**7.0000e-004**	**0.0177**		**96.5834**	**96.5834**	**3.3700e-003**		**96.6676**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5479	5.5322	6.4979	0.0107		0.2569	0.2569		0.2363	0.2363	0.0000	1,030.9680	1,030.9680	0.3334		1,039.3039
Total	**0.5479**	**5.5322**	**6.4979**	**0.0107**		**0.2569**	**0.2569**		**0.2363**	**0.2363**	**0.0000**	**1,030.9680**	**1,030.9680**	**0.3334**		**1,039.3039**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0229	0.0176	0.1607	4.2000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		41.9767	41.9767	1.3400e-003		42.0101
Total	**0.0280**	**0.2056**	**0.2143**	**9.3000e-004**	**0.0628**	**7.4000e-004**	**0.0635**	**0.0170**	**7.0000e-004**	**0.0177**		**96.5834**	**96.5834**	**3.3700e-003**		**96.6676**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.586012	0.026671	0.206176	0.113932	0.017728	0.004552	0.021301	0.012716	0.001229	0.002351	0.005430	0.000986	0.000914

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	0.0000		2.0000e-005
Unmitigated	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1400e-003					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		2.0000e-005	2.0000e-005	0.0000		2.0000e-005

Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.0000e-005**	**2.0000e-005**	**0.0000**		**2.0000e-005**

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	2.1400e-003					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		2.0000e-005	2.0000e-005	0.0000		2.0000e-005
Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.0000e-005**	**2.0000e-005**	**0.0000**		**2.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - ASR Well Construction
Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.10	1000sqft	0.00	100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - ASR Well Construction

Land Use - Surrogate land use for ASR water supply well

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Grading - 12 CY of material export assumed for a ASR well

Trips and VMT - Construction vehicle information based on City input

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	50	0
tblAreaCoating	Area_Nonresidential_Interior	150	0
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	3.00
tblConstructionPhase	NumDays	0.00	3.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	PhaseEndDate	9/15/2024	9/27/2024
tblConstructionPhase	PhaseEndDate	9/15/2024	9/20/2024
tblConstructionPhase	PhaseStartDate	9/16/2024	9/23/2024
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	2.50	0.01
tblGrading	MaterialExported	0.00	12.00
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50

tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
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tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
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tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	UsageHours	6.00	8.00

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tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.12	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
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tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00

tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	23,125.00	0.00

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					
2024	0.0312	0.2853	0.3532	7.9000e-004	1.7900e-003	0.0123	0.0141	4.8000e-004	0.0117	0.0122	0.0000	68.9570	68.9570	0.0153	0.0000	69.3393
Maximum	**0.0312**	**0.2853**	**0.3532**	**7.9000e-004**	**1.7900e-003**	**0.0123**	**0.0141**	**4.8000e-004**	**0.0117**	**0.0122**	**0.0000**	**68.9570**	**68.9570**	**0.0153**	**0.0000**	**69.3393**

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					
2024	0.0312	0.2853	0.3532	7.9000e-004	1.7900e-003	0.0123	0.0141	4.8000e-004	0.0117	0.0122	0.0000	68.9569	68.9569	0.0153	0.0000	69.3392
Maximum	**0.0312**	**0.2853**	**0.3532**	**7.9000e-004**	**1.7900e-003**	**0.0123**	**0.0141**	**4.8000e-004**	**0.0117**	**0.0122**	**0.0000**	**68.9569**	**68.9569**	**0.0153**	**0.0000**	**69.3392**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**9-16-2024**	**9-30-2024**	0.0674	0.0674
		Highest	0.0674	0.0674

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	3.9000e-004	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	**3.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated 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	3.9000e-004	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	**3.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site prep and conductor casing	Site Preparation	9/16/2024	9/20/2024	5	5	
2	Pilot borehole drilling	Building Construction	9/23/2024	9/27/2024	5	5	
3	Ream and caliper survey	Building Construction	9/30/2024	10/4/2024	5	5	
4	Well construction	Building Construction	10/7/2024	10/11/2024	5	5	
5	Well development - air lift and swab pt 1	Building Construction	10/14/2024	10/18/2024	5	5	
6	Well development - air lift and swab pt 2	Building Construction	10/21/2024	10/23/2024	5	3	
7	Well development - test pump install	Building Construction	10/23/2024	10/25/2024	5	3	
8	Well development - pumping	Building Construction	10/28/2024	11/1/2024	5	5	
9	Well testing	Building Construction	11/4/2024	11/8/2024	5	5	
10	Test pump removal	Building Construction	11/11/2024	11/15/2024	5	5	
11	Demobilization	Building Construction	11/18/2024	11/22/2024	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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Ream and caliper survey	Cranes	0	0.00	231	0.29
Well construction	Cranes	0	0.00	231	0.29
Well development - air lift and swab pt 1	Cranes	0	0.00	231	0.29
Site prep and conductor casing	Graders	1	8.00	187	0.41
Site prep and conductor casing	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Well development - air lift and swab pt 2	Cranes	0	0.00	231	0.29
Well development - test pump install	Cranes	0	0.00	231	0.29
Well development - pumping	Cranes	0	0.00	231	0.29
Pilot borehole drilling	Cranes	0	0.00	231	0.29
Pilot borehole drilling	Forklifts	1	24.00	89	0.20
Pilot borehole drilling	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Well testing	Cranes	0	0.00	231	0.29
Test pump removal	Cranes	1	4.00	231	0.29
Demobilization	Cranes	1	4.00	231	0.29
Ream and caliper survey	Forklifts	1	24.00	89	0.20
Well construction	Forklifts	0	0.00	89	0.20
Well development - air lift and swab pt 1	Forklifts	1	24.00	89	0.20
Well development - air lift and swab pt 2	Forklifts	1	24.00	89	0.20
Well development - test pump install	Forklifts	1	8.00	89	0.20
Well development - pumping	Forklifts	1	8.00	89	0.20
Well testing	Forklifts	1	8.00	89	0.20
Test pump removal	Forklifts	1	8.00	89	0.20
Demobilization	Forklifts	1	8.00	89	0.20
Ream and caliper survey	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Well construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Well development - air lift and swab pt 1	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well development - air lift and swab pt 2	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well development - test pump install	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Well development - pumping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Test pump removal	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site prep and conductor casing	Bore/Drill Rigs	1	8.00	221	0.50
Pilot borehole drilling	Bore/Drill Rigs	1	24.00	221	0.50
Pilot borehole drilling	Pumps	1	24.00	84	0.74
Ream and caliper survey	Bore/Drill Rigs	1	24.00	221	0.50
Ream and caliper survey	Pumps	1	24.00	84	0.74
Well construction	Rubber Tired Dozers	1	8.00	247	0.40
Well development - air lift and swab pt 1	Bore/Drill Rigs	1	24.00	221	0.50
Well development - air lift and swab pt 1	Pumps	1	24.00	84	0.74
Well development - air lift and swab pt 2	Bore/Drill Rigs	1	24.00	221	0.50
Well development - air lift and swab pt 2	Pumps	1	24.00	84	0.74
Well development - test pump install	Generator Sets	1	8.00	84	0.74
Well development - test pump install	Pumps	1	8.00	84	0.74
Well development - pumping	Generator Sets	1	8.00	84	0.74
Well development - pumping	Pumps	1	8.00	84	0.74
Well testing	Generator Sets	1	8.00	84	0.74
Well testing	Pumps	1	8.00	84	0.74

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
Ream and caliper survey	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pilot borehole drilling	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well construction	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well development - air lift and swab pt 1	3	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well development - air lift and swab pt 2	3	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site prep and conductor casing	4	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well development - test pump install	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Well development - pumping	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well testing	3	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Test pump removal	4	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demobilization	4	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site prep and conductor casing - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1400e-003	0.0224	0.0204	6.0000e-005		8.3000e-004	8.3000e-004		7.6000e-004	7.6000e-004	0.0000	4.9124	4.9124	1.5900e-003	0.0000	4.9521
Total	**2.1400e-003**	**0.0224**	**0.0204**	**6.0000e-005**	**1.0000e-005**	**8.3000e-004**	**8.4000e-004**	**0.0000**	**7.6000e-004**	**7.6000e-004**	**0.0000**	**4.9124**	**4.9124**	**1.5900e-003**	**0.0000**	**4.9521**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271

Total	**8.0000e-005**	**5.2000e-004**	**6.4000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2525**	**0.2525**	**0.0000**	**0.0000**	**0.2527**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1400e-003	0.0224	0.0204	6.0000e-005		8.3000e-004	8.3000e-004		7.6000e-004	7.6000e-004	0.0000	4.9124	4.9124	1.5900e-003	0.0000	4.9521
Total	**2.1400e-003**	**0.0224**	**0.0204**	**6.0000e-005**	**0.0000**	**8.3000e-004**	**8.3000e-004**	**0.0000**	**7.6000e-004**	**7.6000e-004**	**0.0000**	**4.9124**	**4.9124**	**1.5900e-003**	**0.0000**	**4.9521**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271
Total	**8.0000e-005**	**5.2000e-004**	**6.4000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2525**	**0.2525**	**0.0000**	**0.0000**	**0.2527**

3.3 Pilot borehole drilling - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.6700e-003	0.0512	0.0686	1.6000e-004		2.2300e-003	2.2300e-003		2.1200e-003	2.1200e-003	0.0000	13.5723	13.5723	3.2100e-003	0.0000	13.6524
Total	**5.6700e-003**	**0.0512**	**0.0686**	**1.6000e-004**		**2.2300e-003**	**2.2300e-003**		**2.1200e-003**	**2.1200e-003**	**0.0000**	**13.5723**	**13.5723**	**3.2100e-003**	**0.0000**	**13.6524**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0745
Vendor	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271
Total	**9.0000e-005**	**7.4000e-004**	**7.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.3269**	**0.3269**	**0.0000**	**0.0000**	**0.3272**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.6700e-003	0.0512	0.0686	1.6000e-004		2.2300e-003	2.2300e-003		2.1200e-003	2.1200e-003	0.0000	13.5723	13.5723	3.2100e-003	0.0000	13.6524
Total	**5.6700e-003**	**0.0512**	**0.0686**	**1.6000e-004**		**2.2300e-003**	**2.2300e-003**		**2.1200e-003**	**2.1200e-003**	**0.0000**	**13.5723**	**13.5723**	**3.2100e-003**	**0.0000**	**13.6524**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0745
Vendor	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271
Total	**9.0000e-005**	**7.4000e-004**	**7.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.3269**	**0.3269**	**0.0000**	**0.0000**	**0.3272**

3.4 Ream and caliper survey - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.6700e-003	0.0512	0.0686	1.6000e-004		2.2300e-003	2.2300e-003		2.1200e-003	2.1200e-003	0.0000	13.5723	13.5723	3.2100e-003	0.0000	13.6524
Total	**5.6700e-003**	**0.0512**	**0.0686**	**1.6000e-004**		**2.2300e-003**	**2.2300e-003**		**2.1200e-003**	**2.1200e-003**	**0.0000**	**13.5723**	**13.5723**	**3.2100e-003**	**0.0000**	**13.6524**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0745
Vendor	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271
Total	**9.0000e-005**	**7.4000e-004**	**7.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.3269**	**0.3269**	**0.0000**	**0.0000**	**0.3272**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.6700e-003	0.0512	0.0686	1.6000e-004		2.2300e-003	2.2300e-003		2.1200e-003	2.1200e-003	0.0000	13.5723	13.5723	3.2100e-003	0.0000	13.6524
Total	**5.6700e-003**	**0.0512**	**0.0686**	**1.6000e-004**		**2.2300e-003**	**2.2300e-003**		**2.1200e-003**	**2.1200e-003**	**0.0000**	**13.5723**	**13.5723**	**3.2100e-003**	**0.0000**	**13.6524**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0745
Vendor	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255

Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271
Total	**9.0000e-005**	**7.4000e-004**	**7.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.3269**	**0.3269**	**0.0000**	**0.0000**	**0.3272**

3.5 Well construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4400e-003	0.0249	0.0189	4.0000e-005		1.1300e-003	1.1300e-003		1.0400e-003	1.0400e-003	0.0000	3.2223	3.2223	1.0400e-003	0.0000	3.2484
Total	**2.4400e-003**	**0.0249**	**0.0189**	**4.0000e-005**		**1.1300e-003**	**1.1300e-003**		**1.0400e-003**	**1.0400e-003**	**0.0000**	**3.2223**	**3.2223**	**1.0400e-003**	**0.0000**	**3.2484**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271
Total	**8.0000e-005**	**5.2000e-004**	**6.4000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2525**	**0.2525**	**0.0000**	**0.0000**	**0.2527**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4400e-003	0.0249	0.0189	4.0000e-005		1.1300e-003	1.1300e-003		1.0400e-003	1.0400e-003	0.0000	3.2223	3.2223	1.0400e-003	0.0000	3.2484
Total	**2.4400e-003**	**0.0249**	**0.0189**	**4.0000e-005**		**1.1300e-003**	**1.1300e-003**		**1.0400e-003**	**1.0400e-003**	**0.0000**	**3.2223**	**3.2223**	**1.0400e-003**	**0.0000**	**3.2484**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271
Total	**8.0000e-005**	**5.2000e-004**	**6.4000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2525**	**0.2525**	**0.0000**	**0.0000**	**0.2527**

3.6 Well development - air lift and swab pt 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.5900e-003	0.0403	0.0518	1.3000e-004		1.7300e-003	1.7300e-003		1.6700e-003	1.6700e-003	0.0000	11.5191	11.5191	2.5400e-003	0.0000	11.5826

Total	**4.5900e-003**	**0.0403**	**0.0518**	**1.3000e-004**		**1.7300e-003**	**1.7300e-003**		**1.6700e-003**	**1.6700e-003**	**0.0000**	**11.5191**	**11.5191**	**2.5400e-003**	**0.0000**	**11.5826**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.4000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1488	0.1488	1.0000e-005	0.0000	0.1490
Vendor	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271
Total	**9.0000e-005**	**9.6000e-004**	**7.6000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.4013**	**0.4013**	**1.0000e-005**	**0.0000**	**0.4016**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.5900e-003	0.0403	0.0518	1.3000e-004		1.7300e-003	1.7300e-003		1.6700e-003	1.6700e-003	0.0000	11.5191	11.5191	2.5400e-003	0.0000	11.5826
Total	**4.5900e-003**	**0.0403**	**0.0518**	**1.3000e-004**		**1.7300e-003**	**1.7300e-003**		**1.6700e-003**	**1.6700e-003**	**0.0000**	**11.5191**	**11.5191**	**2.5400e-003**	**0.0000**	**11.5826**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.4000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1488	0.1488	1.0000e-005	0.0000	0.1490
Vendor	1.0000e-005	4.7000e-004	1.3000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1254	0.1254	0.0000	0.0000	0.1255
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271
Total	**9.0000e-005**	**9.6000e-004**	**7.6000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.4013**	**0.4013**	**1.0000e-005**	**0.0000**	**0.4016**

3.7 Well development - air lift and swab pt 2 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.7500e-003	0.0242	0.0311	8.0000e-005		1.0400e-003	1.0400e-003		1.0000e-003	1.0000e-003	0.0000	6.9115	6.9115	1.5200e-003	0.0000	6.9496
Total	**2.7500e-003**	**0.0242**	**0.0311**	**8.0000e-005**		**1.0400e-003**	**1.0400e-003**		**1.0000e-003**	**1.0000e-003**	**0.0000**	**6.9115**	**6.9115**	**1.5200e-003**	**0.0000**	**6.9496**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0745

Vendor	1.0000e-005	2.8000e-004	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0753	0.0753	0.0000	0.0000	0.0753
Worker	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0762	0.0762	0.0000	0.0000	0.0763
Total	**6.0000e-005**	**5.3000e-004**	**4.5000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**1.4000e-004**	**4.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2259**	**0.2259**	**0.0000**	**0.0000**	**0.2261**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.7500e-003	0.0242	0.0311	8.0000e-005		1.0400e-003	1.0400e-003		1.0000e-003	1.0000e-003	0.0000	6.9114	6.9114	1.5200e-003	0.0000	6.9496
Total	**2.7500e-003**	**0.0242**	**0.0311**	**8.0000e-005**		**1.0400e-003**	**1.0400e-003**		**1.0000e-003**	**1.0000e-003**	**0.0000**	**6.9114**	**6.9114**	**1.5200e-003**	**0.0000**	**6.9496**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.2000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0744	0.0744	0.0000	0.0000	0.0745
Vendor	1.0000e-005	2.8000e-004	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0753	0.0753	0.0000	0.0000	0.0753
Worker	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0762	0.0762	0.0000	0.0000	0.0763
Total	**6.0000e-005**	**5.3000e-004**	**4.5000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**1.4000e-004**	**4.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2259**	**0.2259**	**0.0000**	**0.0000**	**0.2261**

3.8 Well development - test pump install - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0300e-003	9.0100e-003	0.0128	2.0000e-005		4.2000e-004	4.2000e-004		4.1000e-004	4.1000e-004	0.0000	1.8971	1.8971	1.4000e-004	0.0000	1.9005
Total	**1.0300e-003**	**9.0100e-003**	**0.0128**	**2.0000e-005**		**4.2000e-004**	**4.2000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.8971**	**1.8971**	**1.4000e-004**	**0.0000**	**1.9005**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.8000e-004	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0753	0.0753	0.0000	0.0000	0.0753
Worker	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0762	0.0762	0.0000	0.0000	0.0763
Total	**5.0000e-005**	**3.1000e-004**	**3.9000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.2000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1515**	**0.1515**	**0.0000**	**0.0000**	**0.1516**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0300e-003	9.0100e-003	0.0128	2.0000e-005		4.2000e-004	4.2000e-004		4.1000e-004	4.1000e-004	0.0000	1.8971	1.8971	1.4000e-004	0.0000	1.9005
Total	**1.0300e-003**	**9.0100e-003**	**0.0128**	**2.0000e-005**		**4.2000e-004**	**4.2000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.8971**	**1.8971**	**1.4000e-004**	**0.0000**	**1.9005**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	2.8000e-004	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0753	0.0753	0.0000	0.0000	0.0753
Worker	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0762	0.0762	0.0000	0.0000	0.0763
Total	**5.0000e-005**	**3.1000e-004**	**3.9000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.2000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1515**	**0.1515**	**0.0000**	**0.0000**	**0.1516**

3.9 Well development - pumping - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7100e-003	0.0150	0.0213	4.0000e-005		7.0000e-004	7.0000e-004		6.9000e-004	6.9000e-004	0.0000	3.1618	3.1618	2.3000e-004	0.0000	3.1675
Total	**1.7100e-003**	**0.0150**	**0.0213**	**4.0000e-005**		**7.0000e-004**	**7.0000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**3.1618**	**3.1618**	**2.3000e-004**	**0.0000**	**3.1675**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271
Total	**7.0000e-005**	**5.0000e-005**	**5.1000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1270**	**0.1270**	**0.0000**	**0.0000**	**0.1271**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7100e-003	0.0150	0.0213	4.0000e-005		7.0000e-004	7.0000e-004		6.9000e-004	6.9000e-004	0.0000	3.1618	3.1618	2.3000e-004	0.0000	3.1675
Total	**1.7100e-003**	**0.0150**	**0.0213**	**4.0000e-005**		**7.0000e-004**	**7.0000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**3.1618**	**3.1618**	**2.3000e-004**	**0.0000**	**3.1675**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1271
Total	**7.0000e-005**	**5.0000e-005**	**5.1000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1270**	**0.1270**	**0.0000**	**0.0000**	**0.1271**

3.10 Well testing - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7100e-003	0.0150	0.0213	4.0000e-005		7.0000e-004	7.0000e-004		6.9000e-004	6.9000e-004	0.0000	3.1618	3.1618	2.3000e-004	0.0000	3.1675
Total	**1.7100e-003**	**0.0150**	**0.0213**	**4.0000e-005**		**7.0000e-004**	**7.0000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**3.1618**	**3.1618**	**2.3000e-004**	**0.0000**	**3.1675**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0953	0.0953	0.0000	0.0000	0.0954
Total	**5.0000e-005**	**4.0000e-005**	**3.9000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0953**	**0.0953**	**0.0000**	**0.0000**	**0.0954**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7100e-003	0.0150	0.0213	4.0000e-005		7.0000e-004	7.0000e-004		6.9000e-004	6.9000e-004	0.0000	3.1618	3.1618	2.3000e-004	0.0000	3.1675
Total	**1.7100e-003**	**0.0150**	**0.0213**	**4.0000e-005**		**7.0000e-004**	**7.0000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**3.1618**	**3.1618**	**2.3000e-004**	**0.0000**	**3.1675**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0953	0.0953	0.0000	0.0000	0.0954
Total	**5.0000e-005**	**4.0000e-005**	**3.9000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0953**	**0.0953**	**0.0000**	**0.0000**	**0.0954**

3.11 Test pump removal - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3700e-003	0.0138	0.0162	3.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.3382	2.3382	7.6000e-004	0.0000	2.3571
Total	**1.3700e-003**	**0.0138**	**0.0162**	**3.0000e-005**		**6.4000e-004**	**6.4000e-004**		**5.9000e-004**	**5.9000e-004**	**0.0000**	**2.3382**	**2.3382**	**7.6000e-004**	**0.0000**	**2.3571**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0953	0.0953	0.0000	0.0000	0.0954
Total	**5.0000e-005**	**4.0000e-005**	**3.9000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0953**	**0.0953**	**0.0000**	**0.0000**	**0.0954**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3700e-003	0.0138	0.0162	3.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.3382	2.3382	7.6000e-004	0.0000	2.3571
Total	**1.3700e-003**	**0.0138**	**0.0162**	**3.0000e-005**		**6.4000e-004**	**6.4000e-004**		**5.9000e-004**	**5.9000e-004**	**0.0000**	**2.3382**	**2.3382**	**7.6000e-004**	**0.0000**	**2.3571**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0953	0.0953	0.0000	0.0000	0.0954
Total	**5.0000e-005**	**4.0000e-005**	**3.9000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0953**	**0.0953**	**0.0000**	**0.0000**	**0.0954**

3.12 Demobilization - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3700e-003	0.0138	0.0162	3.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.3382	2.3382	7.6000e-004	0.0000	2.3571
Total	**1.3700e-003**	**0.0138**	**0.0162**	**3.0000e-005**		**6.4000e-004**	**6.4000e-004**		**5.9000e-004**	**5.9000e-004**	**0.0000**	**2.3382**	**2.3382**	**7.6000e-004**	**0.0000**	**2.3571**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0953	0.0953	0.0000	0.0000	0.0954
Total	**5.0000e-005**	**4.0000e-005**	**3.9000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0953**	**0.0953**	**0.0000**	**0.0000**	**0.0954**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3700e-003	0.0138	0.0162	3.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.3382	2.3382	7.6000e-004	0.0000	2.3571
Total	**1.3700e-003**	**0.0138**	**0.0162**	**3.0000e-005**		**6.4000e-004**	**6.4000e-004**		**5.9000e-004**	**5.9000e-004**	**0.0000**	**2.3382**	**2.3382**	**7.6000e-004**	**0.0000**	**2.3571**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0953	0.0953	0.0000	0.0000	0.0954

Total	**5.0000e-005**	**4.0000e-005**	**3.9000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0953**	**0.0953**	**0.0000**	**0.0000**	**0.0954**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.586012	0.026671	0.206176	0.113932	0.017728	0.004552	0.021301	0.012716	0.001229	0.002351	0.005430	0.000986	0.000914

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.9000e-004	0.0000	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	3.9000e-004	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 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	3.9000e-004					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	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9000e-004**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	ROG	NOx	CO	SO2	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	3.9000e-004					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	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9000e-004**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e

	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - ASR Well Construction
Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.10	1000sqft	0.00	100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - ASR Well Construction
Land Use - Surrogate land use for ASR water supply well
Construction Phase - Construction schedule based on City input
Off-road Equipment - Equipment based on City input
Grading - 12 CY of material export assumed for a ASR well
Trips and VMT - Construction vehicle information based on City input
Vehicle Trips - Modeling construction only
Consumer Products - Modeling construction only
Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	50	0
tblAreaCoating	Area_Nonresidential_Interior	150	0
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	3.00
tblConstructionPhase	NumDays	0.00	3.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	PhaseEndDate	9/15/2024	9/27/2024
tblConstructionPhase	PhaseEndDate	9/15/2024	9/20/2024
tblConstructionPhase	PhaseStartDate	9/16/2024	9/23/2024
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	2.50	0.01
tblGrading	MaterialExported	0.00	12.00
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50

tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.12	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00

tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	23,125.00	0.00

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					
2024	2.5873	22.6793	29.8078	0.0703	0.1700	0.9750	1.1450	0.0458	0.9435	0.9892	0.0000	6,757.2459	6,757.2459	1.4182	0.0000	6,788.0095
Maximum	**2.5873**	**22.6793**	**29.8078**	**0.0703**	**0.1700**	**0.9750**	**1.1450**	**0.0458**	**0.9435**	**0.9892**	**0.0000**	**6,757.2459**	**6,757.2459**	**1.4182**	**0.0000**	**6,788.0095**

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					
2024	2.5873	22.6793	29.8078	0.0703	0.1700	0.9750	1.1450	0.0458	0.9435	0.9892	0.0000	6,757.2459	6,757.2459	1.4182	0.0000	6,788.0095
Maximum	**2.5873**	**22.6793**	**29.8078**	**0.0703**	**0.1700**	**0.9750**	**1.1450**	**0.0458**	**0.9435**	**0.9892**	**0.0000**	**6,757.2459**	**6,757.2459**	**1.4182**	**0.0000**	**6,788.0095**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	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
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
Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**	**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**

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	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	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
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
Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**	**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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site prep and conductor casing	Site Preparation	9/16/2024	9/20/2024	5	5	
2	Pilot borehole drilling	Building Construction	9/23/2024	9/27/2024	5	5	
3	Ream and caliper survey	Building Construction	9/30/2024	10/4/2024	5	5	
4	Well construction	Building Construction	10/7/2024	10/11/2024	5	5	
5	Well development - air lift and swab pt 1	Building Construction	10/14/2024	10/18/2024	5	5	
6	Well development - air lift and swab pt 2	Building Construction	10/21/2024	10/23/2024	5	3	
7	Well development - test pump install	Building Construction	10/23/2024	10/25/2024	5	3	
8	Well development - pumping	Building Construction	10/28/2024	11/1/2024	5	5	
9	Well testing	Building Construction	11/4/2024	11/8/2024	5	5	
10	Test pump removal	Building Construction	11/11/2024	11/15/2024	5	5	
11	Demobilization	Building Construction	11/18/2024	11/22/2024	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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Ream and caliper survey	Cranes	0	0.00	231	0.29
Well construction	Cranes	0	0.00	231	0.29
Well development - air lift and swab pt 1	Cranes	0	0.00	231	0.29
Site prep and conductor casing	Graders	1	8.00	187	0.41
Site prep and conductor casing	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Well development - air lift and swab pt 2	Cranes	0	0.00	231	0.29

Well development - test pump install	Cranes	0	0.00	231	0.29
Well development - pumping	Cranes	0	0.00	231	0.29
Pilot borehole drilling	Cranes	0	0.00	231	0.29
Pilot borehole drilling	Forklifts	1	24.00	89	0.20
Pilot borehole drilling	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Well testing	Cranes	0	0.00	231	0.29
Test pump removal	Cranes	1	4.00	231	0.29
Demobilization	Cranes	1	4.00	231	0.29
Ream and caliper survey	Forklifts	1	24.00	89	0.20
Well construction	Forklifts	0	0.00	89	0.20
Well development - air lift and swab pt 1	Forklifts	1	24.00	89	0.20
Well development - air lift and swab pt 2	Forklifts	1	24.00	89	0.20
Well development - test pump install	Forklifts	1	8.00	89	0.20
Well development - pumping	Forklifts	1	8.00	89	0.20
Well testing	Forklifts	1	8.00	89	0.20
Test pump removal	Forklifts	1	8.00	89	0.20
Demobilization	Forklifts	1	8.00	89	0.20
Ream and caliper survey	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Well construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Well development - air lift and swab pt 1	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well development - air lift and swab pt 2	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well development - test pump install	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well development - pumping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Test pump removal	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site prep and conductor casing	Bore/Drill Rigs	1	8.00	221	0.50
Pilot borehole drilling	Bore/Drill Rigs	1	24.00	221	0.50
Pilot borehole drilling	Pumps	1	24.00	84	0.74
Ream and caliper survey	Bore/Drill Rigs	1	24.00	221	0.50
Ream and caliper survey	Pumps	1	24.00	84	0.74

Well construction	Rubber Tired Dozers	1	8.00	247	0.40
Well development - air lift and swab pt 1	Bore/Drill Rigs	1	24.00	221	0.50
Well development - air lift and swab pt 1	Pumps	1	24.00	84	0.74
Well development - air lift and swab pt 2	Bore/Drill Rigs	1	24.00	221	0.50
Well development - air lift and swab pt 2	Pumps	1	24.00	84	0.74
Well development - test pump install	Generator Sets	1	8.00	84	0.74
Well development - test pump install	Pumps	1	8.00	84	0.74
Well development - pumping	Generator Sets	1	8.00	84	0.74
Well development - pumping	Pumps	1	8.00	84	0.74
Well testing	Generator Sets	1	8.00	84	0.74
Well testing	Pumps	1	8.00	84	0.74

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
Ream and caliper survey	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pilot borehole drilling	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well construction	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well development - air lift and swab pt 1	3	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well development - air lift and swab pt 2	3	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site prep and conductor casing	4	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well development - test pump install	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well development - pumping	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well testing	3	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Test pump removal	4	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demobilization	4	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site prep and conductor casing - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3300e-003	0.0000	2.3300e-003	2.6000e-004	0.0000	2.6000e-004			0.0000			0.0000
Off-Road	0.8540	8.9627	8.1762	0.0224		0.3307	0.3307		0.3042	0.3042		2,165.9911	2,165.9911	0.7005		2,183.5042
Total	**0.8540**	**8.9627**	**8.1762**	**0.0224**	**2.3300e-003**	**0.3307**	**0.3330**	**2.6000e-004**	**0.3042**	**0.3045**		**2,165.9911**	**2,165.9911**	**0.7005**		**2,183.5042**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0319**	**0.2061**	**0.2609**	**1.1200e-003**	**0.0792**	**8.4000e-004**	**0.0801**	**0.0213**	**7.9000e-004**	**0.0221**		**114.5517**	**114.5517**	**3.7600e-003**		**114.6456**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0500e-003	0.0000	1.0500e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	0.8540	8.9627	8.1762	0.0224		0.3307	0.3307		0.3042	0.3042	0.0000	2,165.9911	2,165.9911	0.7005		2,183.5042
Total	**0.8540**	**8.9627**	**8.1762**	**0.0224**	**1.0500e-003**	**0.3307**	**0.3317**	**1.2000e-004**	**0.3042**	**0.3043**	**0.0000**	**2,165.9911**	**2,165.9911**	**0.7005**		**2,183.5042**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0319**	**0.2061**	**0.2609**	**1.1200e-003**	**0.0792**	**8.4000e-004**	**0.0801**	**0.0213**	**7.9000e-004**	**0.0221**		**114.5517**	**114.5517**	**3.7600e-003**		**114.6456**

3.3 Pilot borehole drilling - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2667	20.4624	27.4298	0.0623		0.8933	0.8933		0.8500	0.8500		5,984.3469	5,984.3469	1.4132		6,019.6763
Total	**2.2667**	**20.4624**	**27.4298**	**0.0623**		**0.8933**	**0.8933**		**0.8500**	**0.8500**		**5,984.3469**	**5,984.3469**	**1.4132**		**6,019.6763**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1400e-003	0.0857	0.0241	3.1000e-004	6.9300e-003	2.5000e-004	7.1800e-003	1.8900e-003	2.3000e-004	2.1300e-003		32.9976	32.9976	1.2900e-003		33.0297
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0340**	**0.2918**	**0.2849**	**1.4300e-003**	**0.0861**	**1.0900e-003**	**0.0872**	**0.0232**	**1.0200e-003**	**0.0242**		**147.5492**	**147.5492**	**5.0500e-003**		**147.6753**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2667	20.4624	27.4298	0.0623		0.8933	0.8933		0.8500	0.8500	0.0000	5,984.3469	5,984.3469	1.4132		6,019.6763
Total	**2.2667**	**20.4624**	**27.4298**	**0.0623**		**0.8933**	**0.8933**		**0.8500**	**0.8500**	**0.0000**	**5,984.3469**	**5,984.3469**	**1.4132**		**6,019.6763**

Mitigated Construction Off-Site

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

Hauling	2.1400e-003	0.0857	0.0241	3.1000e-004	6.9300e-003	2.5000e-004	7.1800e-003	1.8900e-003	2.3000e-004	2.1300e-003		32.9976	32.9976	1.2900e-003		33.0297
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0340**	**0.2918**	**0.2849**	**1.4300e-003**	**0.0861**	**1.0900e-003**	**0.0872**	**0.0232**	**1.0200e-003**	**0.0242**		**147.5492**	**147.5492**	**5.0500e-003**		**147.6753**

3.4 Ream and caliper survey - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2667	20.4624	27.4298	0.0623		0.8933	0.8933		0.8500	0.8500		5,984.3469	5,984.3469	1.4132		6,019.6763
Total	**2.2667**	**20.4624**	**27.4298**	**0.0623**		**0.8933**	**0.8933**		**0.8500**	**0.8500**		**5,984.3469**	**5,984.3469**	**1.4132**		**6,019.6763**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1400e-003	0.0857	0.0241	3.1000e-004	6.9300e-003	2.5000e-004	7.1800e-003	1.8900e-003	2.3000e-004	2.1300e-003		32.9976	32.9976	1.2900e-003		33.0297
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0340**	**0.2918**	**0.2849**	**1.4300e-003**	**0.0861**	**1.0900e-003**	**0.0872**	**0.0232**	**1.0200e-003**	**0.0242**		**147.5492**	**147.5492**	**5.0500e-003**		**147.6753**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2667	20.4624	27.4298	0.0623		0.8933	0.8933		0.8500	0.8500	0.0000	5,984.3469	5,984.3469	1.4132		6,019.6763
Total	**2.2667**	**20.4624**	**27.4298**	**0.0623**		**0.8933**	**0.8933**		**0.8500**	**0.8500**	**0.0000**	**5,984.3469**	**5,984.3469**	**1.4132**		**6,019.6763**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1400e-003	0.0857	0.0241	3.1000e-004	6.9300e-003	2.5000e-004	7.1800e-003	1.8900e-003	2.3000e-004	2.1300e-003		32.9976	32.9976	1.2900e-003		33.0297
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0340**	**0.2918**	**0.2849**	**1.4300e-003**	**0.0861**	**1.0900e-003**	**0.0872**	**0.0232**	**1.0200e-003**	**0.0242**		**147.5492**	**147.5492**	**5.0500e-003**		**147.6753**

3.5 Well construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9748	9.9404	7.5655	0.0147		0.4503	0.4503		0.4143	0.4143		1,420.7975	1,420.7975	0.4595		1,432.2853
Total	**0.9748**	**9.9404**	**7.5655**	**0.0147**		**0.4503**	**0.4503**		**0.4143**	**0.4143**		**1,420.7975**	**1,420.7975**	**0.4595**		**1,432.2853**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0319**	**0.2061**	**0.2609**	**1.1200e-003**	**0.0792**	**8.4000e-004**	**0.0801**	**0.0213**	**7.9000e-004**	**0.0221**		**114.5517**	**114.5517**	**3.7600e-003**		**114.6456**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9748	9.9404	7.5655	0.0147		0.4503	0.4503		0.4143	0.4143	0.0000	1,420.7975	1,420.7975	0.4595		1,432.2853
Total	**0.9748**	**9.9404**	**7.5655**	**0.0147**		**0.4503**	**0.4503**		**0.4143**	**0.4143**	**0.0000**	**1,420.7975**	**1,420.7975**	**0.4595**		**1,432.2853**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0319**	**0.2061**	**0.2609**	**1.1200e-003**	**0.0792**	**8.4000e-004**	**0.0801**	**0.0213**	**7.9000e-004**	**0.0221**		**114.5517**	**114.5517**	**3.7600e-003**		**114.6456**

3.6 Well development - air lift and swab pt 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8349	16.1177	20.7230	0.0529		0.6939	0.6939		0.6665	0.6665		5,079.0467	5,079.0467	1.1204		5,107.0563
Total	**1.8349**	**16.1177**	**20.7230**	**0.0529**		**0.6939**	**0.6939**		**0.6665**	**0.6665**		**5,079.0467**	**5,079.0467**	**1.1204**		**5,107.0563**

Unmitigated Construction Off-Site

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

Category	lb/day										lb/day					
Hauling	4.2700e-003	0.1714	0.0481	6.2000e-004	0.0139	4.9000e-004	0.0144	3.7900e-003	4.7000e-004	4.2600e-003		65.9952	65.9952	2.5700e-003		66.0595
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0361**	**0.3775**	**0.3090**	**1.7400e-003**	**0.0931**	**1.3300e-003**	**0.0944**	**0.0251**	**1.2600e-003**	**0.0264**		**180.5468**	**180.5468**	**6.3300e-003**		**180.7051**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8349	16.1177	20.7230	0.0529		0.6939	0.6939		0.6665	0.6665	0.0000	5,079.0467	5,079.0467	1.1204		5,107.0563
Total	**1.8349**	**16.1177**	**20.7230**	**0.0529**		**0.6939**	**0.6939**		**0.6665**	**0.6665**	**0.0000**	**5,079.0467**	**5,079.0467**	**1.1204**		**5,107.0563**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2700e-003	0.1714	0.0481	6.2000e-004	0.0139	4.9000e-004	0.0144	3.7900e-003	4.7000e-004	4.2600e-003		65.9952	65.9952	2.5700e-003		66.0595
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873

Total	**0.0361**	**0.3775**	**0.3090**	**1.7400e-003**	**0.0931**	**1.3300e-003**	**0.0944**	**0.0251**	**1.2600e-003**	**0.0264**		**180.5468**	**180.5468**	**6.3300e-003**		**180.7051**

3.7 Well development - air lift and swab pt 2 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8349	16.1177	20.7230	0.0529		0.6939	0.6939		0.6665	0.6665		5,079.0467	5,079.0467	1.1204		5,107.0563
Total	**1.8349**	**16.1177**	**20.7230**	**0.0529**		**0.6939**	**0.6939**		**0.6665**	**0.6665**		**5,079.0467**	**5,079.0467**	**1.1204**		**5,107.0563**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.5600e-003	0.1428	0.0401	5.1000e-004	0.0116	4.1000e-004	0.0120	3.1600e-003	3.9000e-004	3.5500e-003		54.9960	54.9960	2.1400e-003		55.0495
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0354**	**0.3489**	**0.3010**	**1.6300e-003**	**0.0908**	**1.2500e-003**	**0.0920**	**0.0245**	**1.1800e-003**	**0.0257**		**169.5476**	**169.5476**	**5.9000e-003**		**169.6952**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8349	16.1177	20.7230	0.0529		0.6939	0.6939		0.6665	0.6665	0.0000	5,079.0467	5,079.0467	1.1204		5,107.0563
Total	**1.8349**	**16.1177**	**20.7230**	**0.0529**		**0.6939**	**0.6939**		**0.6665**	**0.6665**	**0.0000**	**5,079.0467**	**5,079.0467**	**1.1204**		**5,107.0563**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.5600e-003	0.1428	0.0401	5.1000e-004	0.0116	4.1000e-004	0.0120	3.1600e-003	3.9000e-004	3.5500e-003		54.9960	54.9960	2.1400e-003		55.0495
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0354**	**0.3489**	**0.3010**	**1.6300e-003**	**0.0908**	**1.2500e-003**	**0.0920**	**0.0245**	**1.1800e-003**	**0.0257**		**169.5476**	**169.5476**	**5.9000e-003**		**169.6952**

3.8 Well development - test pump install - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6851	6.0066	8.5230	0.0147		0.2791	0.2791		0.2750	0.2750		1,394.1000	1,394.1000	0.1005		1,396.6125
Total	**0.6851**	**6.0066**	**8.5230**	**0.0147**		**0.2791**	**0.2791**		**0.2750**	**0.2750**		**1,394.1000**	**1,394.1000**	**0.1005**		**1,396.6125**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0319**	**0.2061**	**0.2609**	**1.1200e-003**	**0.0792**	**8.4000e-004**	**0.0801**	**0.0213**	**7.9000e-004**	**0.0221**		**114.5517**	**114.5517**	**3.7600e-003**		**114.6456**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6851	6.0066	8.5230	0.0147		0.2791	0.2791		0.2750	0.2750	0.0000	1,394.1000	1,394.1000	0.1005		1,396.6125
Total	**0.6851**	**6.0066**	**8.5230**	**0.0147**		**0.2791**	**0.2791**		**0.2750**	**0.2750**	**0.0000**	**1,394.1000**	**1,394.1000**	**0.1005**		**1,396.6125**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.7600e-003	0.1872	0.0475	5.3000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.4000e-004	4.2200e-003		55.8106	55.8106	1.9100e-003		55.8583
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0319**	**0.2061**	**0.2609**	**1.1200e-003**	**0.0792**	**8.4000e-004**	**0.0801**	**0.0213**	**7.9000e-004**	**0.0221**		**114.5517**	**114.5517**	**3.7600e-003**		**114.6456**

3.9 Well development - pumping - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6851	6.0066	8.5230	0.0147		0.2791	0.2791		0.2750	0.2750		1,394.1000	1,394.1000	0.1005		1,396.6125
Total	**0.6851**	**6.0066**	**8.5230**	**0.0147**		**0.2791**	**0.2791**		**0.2750**	**0.2750**		**1,394.1000**	**1,394.1000**	**0.1005**		**1,396.6125**

Unmitigated Construction Off-Site

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

Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0271**	**0.0189**	**0.2134**	**5.9000e-004**	**0.0657**	**4.9000e-004**	**0.0662**	**0.0174**	**4.5000e-004**	**0.0179**		**58.7411**	**58.7411**	**1.8500e-003**		**58.7873**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6851	6.0066	8.5230	0.0147		0.2791	0.2791		0.2750	0.2750	0.0000	1,394.1000	1,394.1000	0.1005		1,396.6125
Total	**0.6851**	**6.0066**	**8.5230**	**0.0147**		**0.2791**	**0.2791**		**0.2750**	**0.2750**	**0.0000**	**1,394.1000**	**1,394.1000**	**0.1005**		**1,396.6125**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0271	0.0189	0.2134	5.9000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		58.7411	58.7411	1.8500e-003		58.7873
Total	**0.0271**	**0.0189**	**0.2134**	**5.9000e-004**	**0.0657**	**4.9000e-004**	**0.0662**	**0.0174**	**4.5000e-004**	**0.0179**		**58.7411**	**58.7411**	**1.8500e-003**		**58.7873**

3.10 Well testing - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6851	6.0066	8.5230	0.0147		0.2791	0.2791		0.2750	0.2750		1,394.1000	1,394.1000	0.1005		1,396.6125
Total	**0.6851**	**6.0066**	**8.5230**	**0.0147**		**0.2791**	**0.2791**		**0.2750**	**0.2750**		**1,394.1000**	**1,394.1000**	**0.1005**		**1,396.6125**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0142	0.1601	4.4000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		44.0558	44.0558	1.3900e-003		44.0905
Total	**0.0203**	**0.0142**	**0.1601**	**4.4000e-004**	**0.0493**	**3.7000e-004**	**0.0497**	**0.0131**	**3.4000e-004**	**0.0134**		**44.0558**	**44.0558**	**1.3900e-003**		**44.0905**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6851	6.0066	8.5230	0.0147		0.2791	0.2791		0.2750	0.2750	0.0000	1,394.1000	1,394.1000	0.1005		1,396.6125

Total	**0.6851**	**6.0066**	**8.5230**	**0.0147**		**0.2791**	**0.2791**		**0.2750**	**0.2750**	**0.0000**	**1,394.1000**	**1,394.1000**	**0.1005**		**1,396.6125**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0142	0.1601	4.4000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		44.0558	44.0558	1.3900e-003		44.0905
Total	**0.0203**	**0.0142**	**0.1601**	**4.4000e-004**	**0.0493**	**3.7000e-004**	**0.0497**	**0.0131**	**3.4000e-004**	**0.0134**		**44.0558**	**44.0558**	**1.3900e-003**		**44.0905**

3.11 Test pump removal - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5479	5.5322	6.4979	0.0107		0.2569	0.2569		0.2363	0.2363		1,030.9680	1,030.9680	0.3334		1,039.3039
Total	**0.5479**	**5.5322**	**6.4979**	**0.0107**		**0.2569**	**0.2569**		**0.2363**	**0.2363**		**1,030.9680**	**1,030.9680**	**0.3334**		**1,039.3039**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0142	0.1601	4.4000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		44.0558	44.0558	1.3900e-003		44.0905
Total	**0.0203**	**0.0142**	**0.1601**	**4.4000e-004**	**0.0493**	**3.7000e-004**	**0.0497**	**0.0131**	**3.4000e-004**	**0.0134**		**44.0558**	**44.0558**	**1.3900e-003**		**44.0905**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5479	5.5322	6.4979	0.0107		0.2569	0.2569		0.2363	0.2363	0.0000	1,030.9680	1,030.9680	0.3334		1,039.3039
Total	**0.5479**	**5.5322**	**6.4979**	**0.0107**		**0.2569**	**0.2569**		**0.2363**	**0.2363**	**0.0000**	**1,030.9680**	**1,030.9680**	**0.3334**		**1,039.3039**

Mitigated Construction Off-Site

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

Vendor	0.0000	0.0000	0.0000	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	0.0142	0.1601	4.4000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		44.0558	44.0558	1.3900e-003		44.0905
Total	**0.0203**	**0.0142**	**0.1601**	**4.4000e-004**	**0.0493**	**3.7000e-004**	**0.0497**	**0.0131**	**3.4000e-004**	**0.0134**		**44.0558**	**44.0558**	**1.3900e-003**		**44.0905**

3.12 Demobilization - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5479	5.5322	6.4979	0.0107		0.2569	0.2569		0.2363	0.2363		1,030.9680	1,030.9680	0.3334		1,039.3039
Total	**0.5479**	**5.5322**	**6.4979**	**0.0107**		**0.2569**	**0.2569**		**0.2363**	**0.2363**		**1,030.9680**	**1,030.9680**	**0.3334**		**1,039.3039**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0142	0.1601	4.4000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		44.0558	44.0558	1.3900e-003		44.0905
Total	**0.0203**	**0.0142**	**0.1601**	**4.4000e-004**	**0.0493**	**3.7000e-004**	**0.0497**	**0.0131**	**3.4000e-004**	**0.0134**		**44.0558**	**44.0558**	**1.3900e-003**		**44.0905**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5479	5.5322	6.4979	0.0107		0.2569	0.2569		0.2363	0.2363	0.0000	1,030.9680	1,030.9680	0.3334		1,039.3039
Total	**0.5479**	**5.5322**	**6.4979**	**0.0107**		**0.2569**	**0.2569**		**0.2363**	**0.2363**	**0.0000**	**1,030.9680**	**1,030.9680**	**0.3334**		**1,039.3039**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0142	0.1601	4.4000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		44.0558	44.0558	1.3900e-003		44.0905
Total	**0.0203**	**0.0142**	**0.1601**	**4.4000e-004**	**0.0493**	**3.7000e-004**	**0.0497**	**0.0131**	**3.4000e-004**	**0.0134**		**44.0558**	**44.0558**	**1.3900e-003**		**44.0905**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.586012	0.026671	0.206176	0.113932	0.017728	0.004552	0.021301	0.012716	0.001229	0.002351	0.005430	0.000986	0.000914

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	0.0000		2.0000e-005
Unmitigated	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1400e-003					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		2.0000e-005	2.0000e-005	0.0000		2.0000e-005

Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.0000e-005**	**2.0000e-005**	**0.0000**		**2.0000e-005**

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	2.1400e-003					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		2.0000e-005	2.0000e-005	0.0000		2.0000e-005
Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.0000e-005**	**2.0000e-005**	**0.0000**		**2.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - ASR Well Construction

Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.10	1000sqft	0.00	100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2025
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - ASR Well Construction

Land Use - Surrogate land use for ASR water supply well

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Grading - 12 CY of material export assumed for a ASR well

Trips and VMT - Construction vehicle information based on City input

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	50	0
tblAreaCoating	Area_Nonresidential_Interior	150	0
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	3.00
tblConstructionPhase	NumDays	0.00	3.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	NumDays	0.00	5.00
tblConstructionPhase	PhaseEndDate	9/15/2024	9/27/2024
tblConstructionPhase	PhaseEndDate	9/15/2024	9/20/2024
tblConstructionPhase	PhaseStartDate	9/16/2024	9/23/2024
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	2.50	0.01
tblGrading	MaterialExported	0.00	12.00
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50

tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	6.00	24.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.12	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	6.00

tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	23,125.00	0.00

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					
2024	2.5949	22.6922	29.8236	0.0702	0.1700	0.9751	1.1450	0.0458	0.9435	0.9893	0.0000	6,748.5272	6,748.5272	1.4183	0.0000	6,779.2953
Maximum	**2.5949**	**22.6922**	**29.8236**	**0.0702**	**0.1700**	**0.9751**	**1.1450**	**0.0458**	**0.9435**	**0.9893**	**0.0000**	**6,748.5272**	**6,748.5272**	**1.4183**	**0.0000**	**6,779.2953**

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					
2024	2.5949	22.6922	29.8236	0.0702	0.1700	0.9751	1.1450	0.0458	0.9435	0.9893	0.0000	6,748.5272	6,748.5272	1.4183	0.0000	6,779.2953
Maximum	**2.5949**	**22.6922**	**29.8236**	**0.0702**	**0.1700**	**0.9751**	**1.1450**	**0.0458**	**0.9435**	**0.9893**	**0.0000**	**6,748.5272**	**6,748.5272**	**1.4183**	**0.0000**	**6,779.2953**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	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
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
Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**	**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**

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	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	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
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
Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**	**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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site prep and conductor casing	Site Preparation	9/16/2024	9/20/2024	5	5	
2	Pilot borehole drilling	Building Construction	9/23/2024	9/27/2024	5	5	
3	Ream and caliper survey	Building Construction	9/30/2024	10/4/2024	5	5	
4	Well construction	Building Construction	10/7/2024	10/11/2024	5	5	
5	Well development - air lift and swab pt 1	Building Construction	10/14/2024	10/18/2024	5	5	
6	Well development - air lift and swab pt 2	Building Construction	10/21/2024	10/23/2024	5	3	
7	Well development - test pump install	Building Construction	10/23/2024	10/25/2024	5	3	
8	Well development - pumping	Building Construction	10/28/2024	11/1/2024	5	5	
9	Well testing	Building Construction	11/4/2024	11/8/2024	5	5	
10	Test pump removal	Building Construction	11/11/2024	11/15/2024	5	5	
11	Demobilization	Building Construction	11/18/2024	11/22/2024	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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Ream and caliper survey	Cranes	0	0.00	231	0.29
Well construction	Cranes	0	0.00	231	0.29
Well development - air lift and swab pt 1	Cranes	0	0.00	231	0.29
Site prep and conductor casing	Graders	1	8.00	187	0.41
Site prep and conductor casing	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Well development - air lift and swab pt 2	Cranes	0	0.00	231	0.29

Well development - test pump install	Cranes	0	0.00	231	0.29
Well development - pumping	Cranes	0	0.00	231	0.29
Pilot borehole drilling	Cranes	0	0.00	231	0.29
Pilot borehole drilling	Forklifts	1	24.00	89	0.20
Pilot borehole drilling	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Well testing	Cranes	0	0.00	231	0.29
Test pump removal	Cranes	1	4.00	231	0.29
Demobilization	Cranes	1	4.00	231	0.29
Ream and caliper survey	Forklifts	1	24.00	89	0.20
Well construction	Forklifts	0	0.00	89	0.20
Well development - air lift and swab pt 1	Forklifts	1	24.00	89	0.20
Well development - air lift and swab pt 2	Forklifts	1	24.00	89	0.20
Well development - test pump install	Forklifts	1	8.00	89	0.20
Well development - pumping	Forklifts	1	8.00	89	0.20
Well testing	Forklifts	1	8.00	89	0.20
Test pump removal	Forklifts	1	8.00	89	0.20
Demobilization	Forklifts	1	8.00	89	0.20
Ream and caliper survey	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Well construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Well development - air lift and swab pt 1	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well development - air lift and swab pt 2	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well development - test pump install	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well development - pumping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Well testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Test pump removal	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site prep and conductor casing	Bore/Drill Rigs	1	8.00	221	0.50
Pilot borehole drilling	Bore/Drill Rigs	1	24.00	221	0.50
Pilot borehole drilling	Pumps	1	24.00	84	0.74
Ream and caliper survey	Bore/Drill Rigs	1	24.00	221	0.50
Ream and caliper survey	Pumps	1	24.00	84	0.74

Well construction	Rubber Tired Dozers	1	8.00	247	0.40
Well development - air lift and swab pt 1	Bore/Drill Rigs	1	24.00	221	0.50
Well development - air lift and swab pt 1	Pumps	1	24.00	84	0.74
Well development - air lift and swab pt 2	Bore/Drill Rigs	1	24.00	221	0.50
Well development - air lift and swab pt 2	Pumps	1	24.00	84	0.74
Well development - test pump install	Generator Sets	1	8.00	84	0.74
Well development - test pump install	Pumps	1	8.00	84	0.74
Well development - pumping	Generator Sets	1	8.00	84	0.74
Well development - pumping	Pumps	1	8.00	84	0.74
Well testing	Generator Sets	1	8.00	84	0.74
Well testing	Pumps	1	8.00	84	0.74

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
Ream and caliper survey	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pilot borehole drilling	4	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well construction	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well development - air lift and swab pt 1	3	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well development - air lift and swab pt 2	3	8.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site prep and conductor casing	4	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well development - test pump install	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well development - pumping	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Well testing	3	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Test pump removal	4	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demobilization	4	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site prep and conductor casing - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.3300e-003	0.0000	2.3300e-003	2.6000e-004	0.0000	2.6000e-004			0.0000			0.0000
Off-Road	0.8540	8.9627	8.1762	0.0224		0.3307	0.3307		0.3042	0.3042		2,165.9911	2,165.9911	0.7005		2,183.5042
Total	**0.8540**	**8.9627**	**8.1762**	**0.0224**	**2.3300e-003**	**0.3307**	**0.3330**	**2.6000e-004**	**0.3042**	**0.3045**		**2,165.9911**	**2,165.9911**	**0.7005**		**2,183.5042**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0356**	**0.2115**	**0.2678**	**1.0700e-003**	**0.0792**	**8.6000e-004**	**0.0801**	**0.0213**	**8.1000e-004**	**0.0221**		**110.5756**	**110.5756**	**3.8100e-003**		**110.6710**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.0500e-003	0.0000	1.0500e-003	1.2000e-004	0.0000	1.2000e-004			0.0000			0.0000
Off-Road	0.8540	8.9627	8.1762	0.0224		0.3307	0.3307		0.3042	0.3042	0.0000	2,165.9911	2,165.9911	0.7005		2,183.5042
Total	**0.8540**	**8.9627**	**8.1762**	**0.0224**	**1.0500e-003**	**0.3307**	**0.3317**	**1.2000e-004**	**0.3042**	**0.3043**	**0.0000**	**2,165.9911**	**2,165.9911**	**0.7005**		**2,183.5042**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0356**	**0.2115**	**0.2678**	**1.0700e-003**	**0.0792**	**8.6000e-004**	**0.0801**	**0.0213**	**8.1000e-004**	**0.0221**		**110.5756**	**110.5756**	**3.8100e-003**		**110.6710**

3.3 Pilot borehole drilling - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2667	20.4624	27.4298	0.0623		0.8933	0.8933		0.8500	0.8500		5,984.3469	5,984.3469	1.4132		6,019.6763
Total	**2.2667**	**20.4624**	**27.4298**	**0.0623**		**0.8933**	**0.8933**		**0.8500**	**0.8500**		**5,984.3469**	**5,984.3469**	**1.4132**		**6,019.6763**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2000e-003	0.0870	0.0252	3.0000e-004	6.9300e-003	2.5000e-004	7.1800e-003	1.8900e-003	2.4000e-004	2.1400e-003		32.5376	32.5376	1.3300e-003		32.5708
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0378**	**0.2985**	**0.2930**	**1.3700e-003**	**0.0861**	**1.1100e-003**	**0.0873**	**0.0232**	**1.0500e-003**	**0.0243**		**143.1132**	**143.1132**	**5.1400e-003**		**143.2418**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2667	20.4624	27.4298	0.0623		0.8933	0.8933		0.8500	0.8500	0.0000	5,984.3469	5,984.3469	1.4132		6,019.6763
Total	**2.2667**	**20.4624**	**27.4298**	**0.0623**		**0.8933**	**0.8933**		**0.8500**	**0.8500**	**0.0000**	**5,984.3469**	**5,984.3469**	**1.4132**		**6,019.6763**

Mitigated Construction Off-Site

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

Hauling	2.2000e-003	0.0870	0.0252	3.0000e-004	6.9300e-003	2.5000e-004	7.1800e-003	1.8900e-003	2.4000e-004	2.1400e-003		32.5376	32.5376	1.3300e-003		32.5708
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0378**	**0.2985**	**0.2930**	**1.3700e-003**	**0.0861**	**1.1100e-003**	**0.0873**	**0.0232**	**1.0500e-003**	**0.0243**		**143.1132**	**143.1132**	**5.1400e-003**		**143.2418**

3.4 Ream and caliper survey - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2667	20.4624	27.4298	0.0623		0.8933	0.8933		0.8500	0.8500		5,984.3469	5,984.3469	1.4132		6,019.6763
Total	**2.2667**	**20.4624**	**27.4298**	**0.0623**		**0.8933**	**0.8933**		**0.8500**	**0.8500**		**5,984.3469**	**5,984.3469**	**1.4132**		**6,019.6763**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2000e-003	0.0870	0.0252	3.0000e-004	6.9300e-003	2.5000e-004	7.1800e-003	1.8900e-003	2.4000e-004	2.1400e-003		32.5376	32.5376	1.3300e-003		32.5708
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0378**	**0.2985**	**0.2930**	**1.3700e-003**	**0.0861**	**1.1100e-003**	**0.0873**	**0.0232**	**1.0500e-003**	**0.0243**		**143.1132**	**143.1132**	**5.1400e-003**		**143.2418**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.2667	20.4624	27.4298	0.0623		0.8933	0.8933		0.8500	0.8500	0.0000	5,984.3469	5,984.3469	1.4132		6,019.6763
Total	**2.2667**	**20.4624**	**27.4298**	**0.0623**		**0.8933**	**0.8933**		**0.8500**	**0.8500**	**0.0000**	**5,984.3469**	**5,984.3469**	**1.4132**		**6,019.6763**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2000e-003	0.0870	0.0252	3.0000e-004	6.9300e-003	2.5000e-004	7.1800e-003	1.8900e-003	2.4000e-004	2.1400e-003		32.5376	32.5376	1.3300e-003		32.5708
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0378**	**0.2985**	**0.2930**	**1.3700e-003**	**0.0861**	**1.1100e-003**	**0.0873**	**0.0232**	**1.0500e-003**	**0.0243**		**143.1132**	**143.1132**	**5.1400e-003**		**143.2418**

3.5 Well construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9748	9.9404	7.5655	0.0147		0.4503	0.4503		0.4143	0.4143		1,420.7975	1,420.7975	0.4595		1,432.2853
Total	**0.9748**	**9.9404**	**7.5655**	**0.0147**		**0.4503**	**0.4503**		**0.4143**	**0.4143**		**1,420.7975**	**1,420.7975**	**0.4595**		**1,432.2853**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0356**	**0.2115**	**0.2678**	**1.0700e-003**	**0.0792**	**8.6000e-004**	**0.0801**	**0.0213**	**8.1000e-004**	**0.0221**		**110.5756**	**110.5756**	**3.8100e-003**		**110.6710**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9748	9.9404	7.5655	0.0147		0.4503	0.4503		0.4143	0.4143	0.0000	1,420.7975	1,420.7975	0.4595		1,432.2853
Total	**0.9748**	**9.9404**	**7.5655**	**0.0147**		**0.4503**	**0.4503**		**0.4143**	**0.4143**	**0.0000**	**1,420.7975**	**1,420.7975**	**0.4595**		**1,432.2853**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0356**	**0.2115**	**0.2678**	**1.0700e-003**	**0.0792**	**8.6000e-004**	**0.0801**	**0.0213**	**8.1000e-004**	**0.0221**		**110.5756**	**110.5756**	**3.8100e-003**		**110.6710**

3.6 Well development - air lift and swab pt 1 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8349	16.1177	20.7230	0.0529		0.6939	0.6939		0.6665	0.6665		5,079.0467	5,079.0467	1.1204		5,107.0563
Total	**1.8349**	**16.1177**	**20.7230**	**0.0529**		**0.6939**	**0.6939**		**0.6665**	**0.6665**		**5,079.0467**	**5,079.0467**	**1.1204**		**5,107.0563**

Unmitigated Construction Off-Site

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

Category	lb/day										lb/day					
Hauling	4.3900e-003	0.1741	0.0504	6.1000e-004	0.0139	5.1000e-004	0.0144	3.7900e-003	4.9000e-004	4.2700e-003		65.0752	65.0752	2.6500e-003		65.1416
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0400**	**0.3855**	**0.3182**	**1.6800e-003**	**0.0931**	**1.3700e-003**	**0.0944**	**0.0251**	**1.3000e-003**	**0.0264**		**175.6509**	**175.6509**	**6.4600e-003**		**175.8125**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8349	16.1177	20.7230	0.0529		0.6939	0.6939		0.6665	0.6665	0.0000	5,079.0467	5,079.0467	1.1204		5,107.0563
Total	**1.8349**	**16.1177**	**20.7230**	**0.0529**		**0.6939**	**0.6939**		**0.6665**	**0.6665**	**0.0000**	**5,079.0467**	**5,079.0467**	**1.1204**		**5,107.0563**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3900e-003	0.1741	0.0504	6.1000e-004	0.0139	5.1000e-004	0.0144	3.7900e-003	4.9000e-004	4.2700e-003		65.0752	65.0752	2.6500e-003		65.1416
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135

Total	**0.0400**	**0.3855**	**0.3182**	**1.6800e-003**	**0.0931**	**1.3700e-003**	**0.0944**	**0.0251**	**1.3000e-003**	**0.0264**		**175.6509**	**175.6509**	**6.4600e-003**		**175.8125**

3.7 Well development - air lift and swab pt 2 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8349	16.1177	20.7230	0.0529		0.6939	0.6939		0.6665	0.6665		5,079.0467	5,079.0467	1.1204		5,107.0563
Total	**1.8349**	**16.1177**	**20.7230**	**0.0529**		**0.6939**	**0.6939**		**0.6665**	**0.6665**		**5,079.0467**	**5,079.0467**	**1.1204**		**5,107.0563**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.6600e-003	0.1451	0.0420	5.1000e-004	0.0116	4.2000e-004	0.0120	3.1600e-003	4.0000e-004	3.5600e-003		54.2294	54.2294	2.2100e-003		54.2846
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0393**	**0.3565**	**0.3098**	**1.5800e-003**	**0.0908**	**1.2800e-003**	**0.0920**	**0.0245**	**1.2100e-003**	**0.0257**		**164.8050**	**164.8050**	**6.0200e-003**		**164.9556**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8349	16.1177	20.7230	0.0529		0.6939	0.6939		0.6665	0.6665	0.0000	5,079.0467	5,079.0467	1.1204		5,107.0563
Total	**1.8349**	**16.1177**	**20.7230**	**0.0529**		**0.6939**	**0.6939**		**0.6665**	**0.6665**	**0.0000**	**5,079.0467**	**5,079.0467**	**1.1204**		**5,107.0563**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.6600e-003	0.1451	0.0420	5.1000e-004	0.0116	4.2000e-004	0.0120	3.1600e-003	4.0000e-004	3.5600e-003		54.2294	54.2294	2.2100e-003		54.2846
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0393**	**0.3565**	**0.3098**	**1.5800e-003**	**0.0908**	**1.2800e-003**	**0.0920**	**0.0245**	**1.2100e-003**	**0.0257**		**164.8050**	**164.8050**	**6.0200e-003**		**164.9556**

3.8 Well development - test pump install - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6851	6.0066	8.5230	0.0147		0.2791	0.2791		0.2750	0.2750		1,394.1000	1,394.1000	0.1005		1,396.6125
Total	**0.6851**	**6.0066**	**8.5230**	**0.0147**		**0.2791**	**0.2791**		**0.2750**	**0.2750**		**1,394.1000**	**1,394.1000**	**0.1005**		**1,396.6125**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0356**	**0.2115**	**0.2678**	**1.0700e-003**	**0.0792**	**8.6000e-004**	**0.0801**	**0.0213**	**8.1000e-004**	**0.0221**		**110.5756**	**110.5756**	**3.8100e-003**		**110.6710**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6851	6.0066	8.5230	0.0147		0.2791	0.2791		0.2750	0.2750	0.0000	1,394.1000	1,394.1000	0.1005		1,396.6125
Total	**0.6851**	**6.0066**	**8.5230**	**0.0147**		**0.2791**	**0.2791**		**0.2750**	**0.2750**	**0.0000**	**1,394.1000**	**1,394.1000**	**0.1005**		**1,396.6125**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.0800e-003	0.1880	0.0536	5.1000e-004	0.0135	3.7000e-004	0.0139	3.8800e-003	3.6000e-004	4.2400e-003		54.6067	54.6067	2.0300e-003		54.6575
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0356**	**0.2115**	**0.2678**	**1.0700e-003**	**0.0792**	**8.6000e-004**	**0.0801**	**0.0213**	**8.1000e-004**	**0.0221**		**110.5756**	**110.5756**	**3.8100e-003**		**110.6710**

3.9 Well development - pumping - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6851	6.0066	8.5230	0.0147		0.2791	0.2791		0.2750	0.2750		1,394.1000	1,394.1000	0.1005		1,396.6125
Total	**0.6851**	**6.0066**	**8.5230**	**0.0147**		**0.2791**	**0.2791**		**0.2750**	**0.2750**		**1,394.1000**	**1,394.1000**	**0.1005**		**1,396.6125**

Unmitigated Construction Off-Site

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

Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0306**	**0.0235**	**0.2142**	**5.6000e-004**	**0.0657**	**4.9000e-004**	**0.0662**	**0.0174**	**4.5000e-004**	**0.0179**		**55.9690**	**55.9690**	**1.7800e-003**		**56.0135**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6851	6.0066	8.5230	0.0147		0.2791	0.2791		0.2750	0.2750	0.0000	1,394.1000	1,394.1000	0.1005		1,396.6125
Total	**0.6851**	**6.0066**	**8.5230**	**0.0147**		**0.2791**	**0.2791**		**0.2750**	**0.2750**	**0.0000**	**1,394.1000**	**1,394.1000**	**0.1005**		**1,396.6125**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0306	0.0235	0.2142	5.6000e-004	0.0657	4.9000e-004	0.0662	0.0174	4.5000e-004	0.0179		55.9690	55.9690	1.7800e-003		56.0135
Total	**0.0306**	**0.0235**	**0.2142**	**5.6000e-004**	**0.0657**	**4.9000e-004**	**0.0662**	**0.0174**	**4.5000e-004**	**0.0179**		**55.9690**	**55.9690**	**1.7800e-003**		**56.0135**

3.10 Well testing - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6851	6.0066	8.5230	0.0147		0.2791	0.2791		0.2750	0.2750		1,394.1000	1,394.1000	0.1005		1,396.6125
Total	**0.6851**	**6.0066**	**8.5230**	**0.0147**		**0.2791**	**0.2791**		**0.2750**	**0.2750**		**1,394.1000**	**1,394.1000**	**0.1005**		**1,396.6125**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0229	0.0176	0.1607	4.2000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		41.9767	41.9767	1.3400e-003		42.0101
Total	**0.0229**	**0.0176**	**0.1607**	**4.2000e-004**	**0.0493**	**3.7000e-004**	**0.0497**	**0.0131**	**3.4000e-004**	**0.0134**		**41.9767**	**41.9767**	**1.3400e-003**		**42.0101**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6851	6.0066	8.5230	0.0147		0.2791	0.2791		0.2750	0.2750	0.0000	1,394.1000	1,394.1000	0.1005		1,396.6125

Total	**0.6851**	**6.0066**	**8.5230**	**0.0147**		**0.2791**	**0.2791**		**0.2750**	**0.2750**	**0.0000**	**1,394.1000**	**1,394.1000**	**0.1005**		**1,396.6125**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0229	0.0176	0.1607	4.2000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		41.9767	41.9767	1.3400e-003		42.0101
Total	**0.0229**	**0.0176**	**0.1607**	**4.2000e-004**	**0.0493**	**3.7000e-004**	**0.0497**	**0.0131**	**3.4000e-004**	**0.0134**		**41.9767**	**41.9767**	**1.3400e-003**		**42.0101**

3.11 Test pump removal - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5479	5.5322	6.4979	0.0107		0.2569	0.2569		0.2363	0.2363		1,030.9680	1,030.9680	0.3334		1,039.3039
Total	**0.5479**	**5.5322**	**6.4979**	**0.0107**		**0.2569**	**0.2569**		**0.2363**	**0.2363**		**1,030.9680**	**1,030.9680**	**0.3334**		**1,039.3039**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0229	0.0176	0.1607	4.2000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		41.9767	41.9767	1.3400e-003		42.0101
Total	**0.0229**	**0.0176**	**0.1607**	**4.2000e-004**	**0.0493**	**3.7000e-004**	**0.0497**	**0.0131**	**3.4000e-004**	**0.0134**		**41.9767**	**41.9767**	**1.3400e-003**		**42.0101**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5479	5.5322	6.4979	0.0107		0.2569	0.2569		0.2363	0.2363	0.0000	1,030.9680	1,030.9680	0.3334		1,039.3039
Total	**0.5479**	**5.5322**	**6.4979**	**0.0107**		**0.2569**	**0.2569**		**0.2363**	**0.2363**	**0.0000**	**1,030.9680**	**1,030.9680**	**0.3334**		**1,039.3039**

Mitigated Construction Off-Site

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0229	0.0176	0.1607	4.2000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		41.9767	41.9767	1.3400e-003		42.0101
Total	**0.0229**	**0.0176**	**0.1607**	**4.2000e-004**	**0.0493**	**3.7000e-004**	**0.0497**	**0.0131**	**3.4000e-004**	**0.0134**		**41.9767**	**41.9767**	**1.3400e-003**		**42.0101**

3.12 Demobilization - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5479	5.5322	6.4979	0.0107		0.2569	0.2569		0.2363	0.2363		1,030.9680	1,030.9680	0.3334		1,039.3039
Total	**0.5479**	**5.5322**	**6.4979**	**0.0107**		**0.2569**	**0.2569**		**0.2363**	**0.2363**		**1,030.9680**	**1,030.9680**	**0.3334**		**1,039.3039**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0229	0.0176	0.1607	4.2000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		41.9767	41.9767	1.3400e-003		42.0101
Total	**0.0229**	**0.0176**	**0.1607**	**4.2000e-004**	**0.0493**	**3.7000e-004**	**0.0497**	**0.0131**	**3.4000e-004**	**0.0134**		**41.9767**	**41.9767**	**1.3400e-003**		**42.0101**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5479	5.5322	6.4979	0.0107		0.2569	0.2569		0.2363	0.2363	0.0000	1,030.9680	1,030.9680	0.3334		1,039.3039
Total	**0.5479**	**5.5322**	**6.4979**	**0.0107**		**0.2569**	**0.2569**		**0.2363**	**0.2363**	**0.0000**	**1,030.9680**	**1,030.9680**	**0.3334**		**1,039.3039**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0229	0.0176	0.1607	4.2000e-004	0.0493	3.7000e-004	0.0497	0.0131	3.4000e-004	0.0134		41.9767	41.9767	1.3400e-003		42.0101
Total	**0.0229**	**0.0176**	**0.1607**	**4.2000e-004**	**0.0493**	**3.7000e-004**	**0.0497**	**0.0131**	**3.4000e-004**	**0.0134**		**41.9767**	**41.9767**	**1.3400e-003**		**42.0101**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.586012	0.026671	0.206176	0.113932	0.017728	0.004552	0.021301	0.012716	0.001229	0.002351	0.005430	0.000986	0.000914

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	0.0000		2.0000e-005
Unmitigated	2.1400e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		2.0000e-005	2.0000e-005	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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1400e-003					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		2.0000e-005	2.0000e-005	0.0000		2.0000e-005

Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.0000e-005**	**2.0000e-005**	**0.0000**		**2.0000e-005**

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	2.1400e-003					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		2.0000e-005	2.0000e-005	0.0000		2.0000e-005
Total	**2.1400e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.0000e-005**	**2.0000e-005**	**0.0000**		**2.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - ASR Treatment Facility Construction

Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.23	1000sqft	0.03	1,225.00	0
Other Asphalt Surfaces	0.22	Acre	0.22	9,583.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - ASR Treatment Faciity Construction

Land Use - Surrogate land uses for ASR facilities

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Grading - 100 CY of material assumed to be exported and 2.5 acres assumed to be total disturbed based on model default and multiple passes with the grader

Trips and VMT - Construction vehicle information based on City input

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Architectural Coating - Default coating EF

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	613	50
tblAreaCoating	Area_Nonresidential_Interior	1838	150
tblAreaCoating	Area_Parking	575	0
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	20.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	25.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	PhaseEndDate	1/5/2025	1/10/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	4/4/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	5/16/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	6/20/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	7/4/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	7/25/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	8/15/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	8/29/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	9/5/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	9/12/2025

tblConstructionPhase	PhaseStartDate	1/6/2025	3/10/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	4/7/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	5/19/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	6/23/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	7/6/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	7/28/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	8/18/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	9/1/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	9/8/2025
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	5.00	2.50
tblGrading	MaterialExported	0.00	100.00
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets

tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
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tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1.53	0.00
tblTripsAndVMT	HaulingTripNumber	13.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00

tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	13.00	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	284,437.50	0.00

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					
2025	0.0981	0.7848	1.1158	2.0100e-003	9.7900e-003	0.0311	0.0409	2.2200e-003	0.0301	0.0323	0.0000	173.5186	173.5186	0.0244	0.0000	174.1278
Maximum	**0.0981**	**0.7848**	**1.1158**	**2.0100e-003**	**9.7900e-003**	**0.0311**	**0.0409**	**2.2200e-003**	**0.0301**	**0.0323**	**0.0000**	**173.5186**	**173.5186**	**0.0244**	**0.0000**	**174.1278**

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					
2025	0.0981	0.7848	1.1158	2.0100e-003	8.3300e-003	0.0311	0.0395	2.0600e-003	0.0301	0.0321	0.0000	173.5184	173.5184	0.0244	0.0000	174.1276
Maximum	**0.0981**	**0.7848**	**1.1158**	**2.0100e-003**	**8.3300e-003**	**0.0311**	**0.0395**	**2.0600e-003**	**0.0301**	**0.0321**	**0.0000**	**173.5184**	**173.5184**	**0.0244**	**0.0000**	**174.1276**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**14.91**	**0.00**	**3.57**	**7.21**	**0.00**	**0.50**	**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	**1-6-2025**	**4-5-2025**	0.3390	0.3390
2	**4-6-2025**	**7-5-2025**	0.3355	0.3355
3	**7-6-2025**	**9-30-2025**	0.1352	0.1352
		Highest	0.3390	0.3390

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	5.4700e-003	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	**5.4700e-003**	**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**

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	5.4700e-003	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	**5.4700e-003**	**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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Mobilization	Site Preparation	1/6/2025	1/10/2025	5	5	
2	Earthwork and Compaction	Grading	1/13/2025	1/24/2025	5	10	
3	Subgrade pipeline and electrical	Trenching	1/27/2025	3/7/2025	5	30	
4	Foundations and slabs	Building Construction	3/10/2025	4/4/2025	5	20	
5	Building construction	Building Construction	4/7/2025	5/16/2025	5	30	
6	Tank construction	Building Construction	5/19/2025	6/20/2025	5	25	
7	Equipment installation	Building Construction	6/23/2025	7/4/2025	5	10	
8	Wellhead slab	Building Construction	7/6/2025	7/25/2025	5	15	

9	Filters	Building Construction	7/28/2025	8/15/2025	5	15	
10	MCC installation	Building Construction	8/18/2025	8/29/2025	5	10	
11	Facility startup and testing	Building Construction	9/1/2025	9/5/2025	5	5	
12	Architectural coatings	Architectural Coating	9/1/2025	9/5/2025	5	5	
13	Demobilization	Building Construction	9/8/2025	9/12/2025	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.22

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,838; Non-Residential Outdoor: 613; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building construction	Cranes	0	0.00	231	0.29
Tank construction	Cranes	1	4.00	231	0.29
Equipment installation	Cranes	1	4.00	231	0.29
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Wellhead slab	Cranes	1	4.00	231	0.29
Filters	Cranes	1	4.00	231	0.29
MCC installation	Cranes	1	4.00	231	0.29
Foundations and slabs	Cranes	0	0.00	231	0.29
Foundations and slabs	Forklifts	1	8.00	89	0.20
Foundations and slabs	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Facility startup and testing	Cranes	1	4.00	231	0.29
Earthwork and Compaction	Concrete/Industrial Saws	0	0.00	81	0.73
Demobilization	Cranes	1	4.00	231	0.29
Building construction	Forklifts	1	8.00	89	0.20
Tank construction	Forklifts	1	8.00	89	0.20
Equipment installation	Forklifts	1	8.00	89	0.20
Wellhead slab	Forklifts	1	8.00	89	0.20

Filters	Forklifts	1	8.00	89	0.20
MCC installation	Forklifts	1	8.00	89	0.20
Facility startup and testing	Forklifts	1	8.00	89	0.20
Earthwork and Compaction	Rubber Tired Dozers	0	0.00	247	0.40
Demobilization	Forklifts	1	8.00	89	0.20
Building construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Tank construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Equipment installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Wellhead slab	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Filters	Tractors/Loaders/Backhoes	0	0.00	97	0.37
MCC installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Facility startup and testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Earthwork and Compaction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Earthwork and Compaction	Graders	1	8.00	187	0.41
Building construction	Aerial Lifts	1	8.00	63	0.31
Building construction	Cement and Mortar Mixers	1	8.00	9	0.56
Tank construction	Generator Sets	1	8.00	84	0.74
Equipment installation	Generator Sets	1	8.00	84	0.74
Wellhead slab	Generator Sets	1	8.00	84	0.74
Demobilization	Pavers	1	4.00	130	0.42
Demobilization	Paving Equipment	1	4.00	132	0.36
Demobilization	Rollers	1	4.00	80	0.38
Architectural coatings	Air Compressors	1	6.00	78	0.48
Filters	Generator Sets	1	8.00	84	0.74
MCC installation	Generator Sets	1	8.00	84	0.74
Facility startup and testing	Generator Sets	1	8.00	84	0.74
Subgrade pipeline and electrical	Concrete/Industrial Saws	1	8.00	81	0.73
Subgrade pipeline and electrical	Excavators	1	8.00	158	0.38
Subgrade pipeline and electrical	Forklifts	1	8.00	89	0.20
Subgrade pipeline and electrical	Pumps	1	8.00	84	0.74

Subgrade pipeline and electrical	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Foundations and slabs	Aerial Lifts	1	8.00	63	0.31
Foundations and slabs	Cement and Mortar Mixers	1	8.00	9	0.56
Foundations and slabs	Generator Sets	4	8.00	84	0.74
Foundations and slabs	Welders	1	8.00	46	0.45
Building construction	Generator Sets	4	8.00	84	0.74
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
Building construction	10	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Foundations and slabs	10	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Tank construction	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Equipment installation	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead slab	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Mobilization	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Filters	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
MCC installation	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	3	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Earthwork and Compaction	3	8.00	2.00	8.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Subgrade pipeline and electrical	5	8.00	4.00	6.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural coatings	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Mobilization - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.3300e-003	0.0000	1.3300e-003	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4400e-003	0.0153	0.0151	3.0000e-005		5.5000e-004	5.5000e-004		5.0000e-004	5.0000e-004	0.0000	2.8221	2.8221	9.1000e-004	0.0000	2.8450
Total	**1.4400e-003**	**0.0153**	**0.0151**	**3.0000e-005**	**1.3300e-003**	**5.5000e-004**	**1.8800e-003**	**1.4000e-004**	**5.0000e-004**	**6.4000e-004**	**0.0000**	**2.8221**	**2.8221**	**9.1000e-004**	**0.0000**	**2.8450**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1247	0.1247	0.0000	0.0000	0.1248
Worker	6.0000e-005	5.0000e-005	4.7000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1220	0.1220	0.0000	0.0000	0.1221
Total	**7.0000e-005**	**5.1000e-004**	**5.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2468**	**0.2468**	**0.0000**	**0.0000**	**0.2470**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.0000e-004	0.0000	6.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	1.4400e-003	0.0153	0.0151	3.0000e-005		5.5000e-004	5.5000e-004		5.0000e-004	5.0000e-004	0.0000	2.8221	2.8221	9.1000e-004	0.0000	2.8450
Total	**1.4400e-003**	**0.0153**	**0.0151**	**3.0000e-005**	**6.0000e-004**	**5.5000e-004**	**1.1500e-003**	**6.0000e-005**	**5.0000e-004**	**5.6000e-004**	**0.0000**	**2.8221**	**2.8221**	**9.1000e-004**	**0.0000**	**2.8450**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1247	0.1247	0.0000	0.0000	0.1248
Worker	6.0000e-005	5.0000e-005	4.7000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1220	0.1220	0.0000	0.0000	0.1221
Total	**7.0000e-005**	**5.1000e-004**	**5.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2468**	**0.2468**	**0.0000**	**0.0000**	**0.2470**

3.3 Earthwork and Compaction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.3300e-003	0.0000	1.3300e-003	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8800e-003	0.0306	0.0303	6.0000e-005		1.1000e-003	1.1000e-003		1.0100e-003	1.0100e-003	0.0000	5.6443	5.6443	1.8300e-003	0.0000	5.6899
Total	**2.8800e-003**	**0.0306**	**0.0303**	**6.0000e-005**	**1.3300e-003**	**1.1000e-003**	**2.4300e-003**	**1.4000e-004**	**1.0100e-003**	**1.1500e-003**	**0.0000**	**5.6443**	**5.6443**	**1.8300e-003**	**0.0000**	**5.6899**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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-005	8.3000e-004	2.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2955	0.2955	1.0000e-005	0.0000	0.2958
Vendor	2.0000e-005	9.2000e-004	2.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2495	0.2495	1.0000e-005	0.0000	0.2497
Worker	1.3000e-004	1.0000e-004	9.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2441	0.2441	1.0000e-005	0.0000	0.2443
Total	**1.7000e-004**	**1.8500e-003**	**1.4300e-003**	**0.0000**	**4.6000e-004**	**0.0000**	**4.6000e-004**	**1.2000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.7891**	**0.7891**	**3.0000e-005**	**0.0000**	**0.7898**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.0000e-004	0.0000	6.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8800e-003	0.0306	0.0303	6.0000e-005		1.1000e-003	1.1000e-003		1.0100e-003	1.0100e-003	0.0000	5.6443	5.6443	1.8300e-003	0.0000	5.6899
Total	**2.8800e-003**	**0.0306**	**0.0303**	**6.0000e-005**	**6.0000e-004**	**1.1000e-003**	**1.7000e-003**	**6.0000e-005**	**1.0100e-003**	**1.0700e-003**	**0.0000**	**5.6443**	**5.6443**	**1.8300e-003**	**0.0000**	**5.6899**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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-005	8.3000e-004	2.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2955	0.2955	1.0000e-005	0.0000	0.2958

Vendor	2.0000e-005	9.2000e-004	2.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2495	0.2495	1.0000e-005	0.0000	0.2497
Worker	1.3000e-004	1.0000e-004	9.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2441	0.2441	1.0000e-005	0.0000	0.2443
Total	**1.7000e-004**	**1.8500e-003**	**1.4300e-003**	**0.0000**	**4.6000e-004**	**0.0000**	**4.6000e-004**	**1.2000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.7891**	**0.7891**	**3.0000e-005**	**0.0000**	**0.7898**

3.4 Subgrade pipeline and electrical - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0145	0.1211	0.2099	3.4000e-004		5.2800e-003	5.2800e-003		5.0900e-003	5.0900e-003	0.0000	29.5036	29.5036	4.8900e-003	0.0000	29.6258
Total	**0.0145**	**0.1211**	**0.2099**	**3.4000e-004**		**5.2800e-003**	**5.2800e-003**		**5.0900e-003**	**5.0900e-003**	**0.0000**	**29.5036**	**29.5036**	**4.8900e-003**	**0.0000**	**29.6258**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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-005	6.2000e-004	1.8000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2216	0.2216	1.0000e-005	0.0000	0.2219
Vendor	1.4000e-004	5.4900e-003	1.4300e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4967	1.4967	5.0000e-005	0.0000	1.4981
Worker	3.9000e-004	2.9000e-004	2.8400e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.7322	0.7322	2.0000e-005	0.0000	0.7328
Total	**5.5000e-004**	**6.4000e-003**	**4.4500e-003**	**3.0000e-005**	**1.3900e-003**	**2.0000e-005**	**1.4100e-003**	**3.7000e-004**	**2.0000e-005**	**4.0000e-004**	**0.0000**	**2.4506**	**2.4506**	**8.0000e-005**	**0.0000**	**2.4527**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0145	0.1211	0.2099	3.4000e-004		5.2800e-003	5.2800e-003		5.0900e-003	5.0900e-003	0.0000	29.5036	29.5036	4.8900e-003	0.0000	29.6258
Total	**0.0145**	**0.1211**	**0.2099**	**3.4000e-004**		**5.2800e-003**	**5.2800e-003**		**5.0900e-003**	**5.0900e-003**	**0.0000**	**29.5036**	**29.5036**	**4.8900e-003**	**0.0000**	**29.6258**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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-005	6.2000e-004	1.8000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2216	0.2216	1.0000e-005	0.0000	0.2219
Vendor	1.4000e-004	5.4900e-003	1.4300e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4967	1.4967	5.0000e-005	0.0000	1.4981
Worker	3.9000e-004	2.9000e-004	2.8400e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.7322	0.7322	2.0000e-005	0.0000	0.7328
Total	**5.5000e-004**	**6.4000e-003**	**4.4500e-003**	**3.0000e-005**	**1.3900e-003**	**2.0000e-005**	**1.4100e-003**	**3.7000e-004**	**2.0000e-005**	**4.0000e-004**	**0.0000**	**2.4506**	**2.4506**	**8.0000e-005**	**0.0000**	**2.4527**

3.5 Foundations and slabs - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0173	0.1530	0.2328	3.9000e-004		5.9800e-003	5.9800e-003		5.8500e-003	5.8500e-003	0.0000	33.2388	33.2388	3.7400e-003	0.0000	33.3324
Total	**0.0173**	**0.1530**	**0.2328**	**3.9000e-004**		**5.9800e-003**	**5.9800e-003**		**5.8500e-003**	**5.8500e-003**	**0.0000**	**33.2388**	**33.2388**	**3.7400e-003**	**0.0000**	**33.3324**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4989	0.4989	2.0000e-005	0.0000	0.4994
Worker	2.6000e-004	1.9000e-004	1.8900e-003	1.0000e-005	6.3000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4882	0.4882	1.0000e-005	0.0000	0.4885
Total	**3.1000e-004**	**2.0200e-003**	**2.3700e-003**	**2.0000e-005**	**7.6000e-004**	**0.0000**	**7.7000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9871**	**0.9871**	**3.0000e-005**	**0.0000**	**0.9879**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0173	0.1530	0.2328	3.9000e-004		5.9800e-003	5.9800e-003		5.8500e-003	5.8500e-003	0.0000	33.2388	33.2388	3.7400e-003	0.0000	33.3323
Total	**0.0173**	**0.1530**	**0.2328**	**3.9000e-004**		**5.9800e-003**	**5.9800e-003**		**5.8500e-003**	**5.8500e-003**	**0.0000**	**33.2388**	**33.2388**	**3.7400e-003**	**0.0000**	**33.3323**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4989	0.4989	2.0000e-005	0.0000	0.4994
Worker	2.6000e-004	1.9000e-004	1.8900e-003	1.0000e-005	6.3000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.4882	0.4882	1.0000e-005	0.0000	0.4885
Total	**3.1000e-004**	**2.0200e-003**	**2.3700e-003**	**2.0000e-005**	**7.6000e-004**	**0.0000**	**7.7000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.9871**	**0.9871**	**3.0000e-005**	**0.0000**	**0.9879**

3.6 Building construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0259	0.2295	0.3491	5.9000e-004		8.9600e-003	8.9600e-003		8.7700e-003	8.7700e-003	0.0000	49.8582	49.8582	5.6100e-003	0.0000	49.9986
Total	**0.0259**	**0.2295**	**0.3491**	**5.9000e-004**		**8.9600e-003**	**8.9600e-003**		**8.7700e-003**	**8.7700e-003**	**0.0000**	**49.8582**	**49.8582**	**5.6100e-003**	**0.0000**	**49.9986**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0000e-005	2.7500e-003	7.2000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.7484	0.7484	3.0000e-005	0.0000	0.7490
Worker	3.9000e-004	2.9000e-004	2.8400e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.7322	0.7322	2.0000e-005	0.0000	0.7328
Total	**4.6000e-004**	**3.0400e-003**	**3.5600e-003**	**2.0000e-005**	**1.1500e-003**	**2.0000e-005**	**1.1600e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.4806**	**1.4806**	**5.0000e-005**	**0.0000**	**1.4818**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0259	0.2295	0.3491	5.9000e-004		8.9600e-003	8.9600e-003		8.7700e-003	8.7700e-003	0.0000	49.8581	49.8581	5.6100e-003	0.0000	49.9985
Total	**0.0259**	**0.2295**	**0.3491**	**5.9000e-004**		**8.9600e-003**	**8.9600e-003**		**8.7700e-003**	**8.7700e-003**	**0.0000**	**49.8581**	**49.8581**	**5.6100e-003**	**0.0000**	**49.9985**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.0000e-005	2.7500e-003	7.2000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.7484	0.7484	3.0000e-005	0.0000	0.7490
Worker	3.9000e-004	2.9000e-004	2.8400e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.7322	0.7322	2.0000e-005	0.0000	0.7328
Total	**4.6000e-004**	**3.0400e-003**	**3.5600e-003**	**2.0000e-005**	**1.1500e-003**	**2.0000e-005**	**1.1600e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.4806**	**1.4806**	**5.0000e-005**	**0.0000**	**1.4818**

3.7 Tank construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.3700e-003	0.0600	0.0708	1.4000e-004		2.5800e-003	2.5800e-003		2.4700e-003	2.4700e-003	0.0000	11.9122	11.9122	1.8300e-003	0.0000	11.9579
Total	**6.3700e-003**	**0.0600**	**0.0708**	**1.4000e-004**		**2.5800e-003**	**2.5800e-003**		**2.4700e-003**	**2.4700e-003**	**0.0000**	**11.9122**	**11.9122**	**1.8300e-003**	**0.0000**	**11.9579**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.0000e-005	2.2900e-003	6.0000e-004	1.0000e-005	1.6000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.6236	0.6236	2.0000e-005	0.0000	0.6242
Worker	3.2000e-004	2.4000e-004	2.3700e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6102	0.6102	2.0000e-005	0.0000	0.6107
Total	**3.8000e-004**	**2.5300e-003**	**2.9700e-003**	**2.0000e-005**	**9.5000e-004**	**1.0000e-005**	**9.7000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**1.2338**	**1.2338**	**4.0000e-005**	**0.0000**	**1.2349**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.3700e-003	0.0600	0.0708	1.4000e-004		2.5800e-003	2.5800e-003		2.4700e-003	2.4700e-003	0.0000	11.9122	11.9122	1.8300e-003	0.0000	11.9579
Total	**6.3700e-003**	**0.0600**	**0.0708**	**1.4000e-004**		**2.5800e-003**	**2.5800e-003**		**2.4700e-003**	**2.4700e-003**	**0.0000**	**11.9122**	**11.9122**	**1.8300e-003**	**0.0000**	**11.9579**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.0000e-005	2.2900e-003	6.0000e-004	1.0000e-005	1.6000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.6236	0.6236	2.0000e-005	0.0000	0.6242
Worker	3.2000e-004	2.4000e-004	2.3700e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.6102	0.6102	2.0000e-005	0.0000	0.6107
Total	**3.8000e-004**	**2.5300e-003**	**2.9700e-003**	**2.0000e-005**	**9.5000e-004**	**1.0000e-005**	**9.7000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**1.2338**	**1.2338**	**4.0000e-005**	**0.0000**	**1.2349**

3.8 Equipment installation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.5500e-003	0.0240	0.0283	5.0000e-005		1.0300e-003	1.0300e-003		9.9000e-004	9.9000e-004	0.0000	4.7649	4.7649	7.3000e-004	0.0000	4.7832
Total	**2.5500e-003**	**0.0240**	**0.0283**	**5.0000e-005**		**1.0300e-003**	**1.0300e-003**		**9.9000e-004**	**9.9000e-004**	**0.0000**	**4.7649**	**4.7649**	**7.3000e-004**	**0.0000**	**4.7832**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	9.2000e-004	2.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2495	0.2495	1.0000e-005	0.0000	0.2497
Worker	1.3000e-004	1.0000e-004	9.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2441	0.2441	1.0000e-005	0.0000	0.2443
Total	**1.5000e-004**	**1.0200e-003**	**1.1900e-003**	**0.0000**	**3.9000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.4935**	**0.4935**	**2.0000e-005**	**0.0000**	**0.4939**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.5500e-003	0.0240	0.0283	5.0000e-005		1.0300e-003	1.0300e-003		9.9000e-004	9.9000e-004	0.0000	4.7649	4.7649	7.3000e-004	0.0000	4.7832
Total	**2.5500e-003**	**0.0240**	**0.0283**	**5.0000e-005**		**1.0300e-003**	**1.0300e-003**		**9.9000e-004**	**9.9000e-004**	**0.0000**	**4.7649**	**4.7649**	**7.3000e-004**	**0.0000**	**4.7832**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	9.2000e-004	2.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2495	0.2495	1.0000e-005	0.0000	0.2497
Worker	1.3000e-004	1.0000e-004	9.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2441	0.2441	1.0000e-005	0.0000	0.2443
Total	**1.5000e-004**	**1.0200e-003**	**1.1900e-003**	**0.0000**	**3.9000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.4935**	**0.4935**	**2.0000e-005**	**0.0000**	**0.4939**

3.9 Wellhead slab - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.8200e-003	0.0360	0.0425	8.0000e-005		1.5500e-003	1.5500e-003		1.4800e-003	1.4800e-003	0.0000	7.1473	7.1473	1.1000e-003	0.0000	7.1748
Total	**3.8200e-003**	**0.0360**	**0.0425**	**8.0000e-005**		**1.5500e-003**	**1.5500e-003**		**1.4800e-003**	**1.4800e-003**	**0.0000**	**7.1473**	**7.1473**	**1.1000e-003**	**0.0000**	**7.1748**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0000e-005	1.3700e-003	3.6000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3742	0.3742	1.0000e-005	0.0000	0.3745
Worker	1.9000e-004	1.5000e-004	1.4200e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3661	0.3661	1.0000e-005	0.0000	0.3664

Total	**2.2000e-004**	**1.5200e-003**	**1.7800e-003**	**0.0000**	**5.7000e-004**	**0.0000**	**5.8000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.7403**	**0.7403**	**2.0000e-005**	**0.0000**	**0.7409**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.8200e-003	0.0360	0.0425	8.0000e-005		1.5500e-003	1.5500e-003		1.4800e-003	1.4800e-003	0.0000	7.1473	7.1473	1.1000e-003	0.0000	7.1748
Total	**3.8200e-003**	**0.0360**	**0.0425**	**8.0000e-005**		**1.5500e-003**	**1.5500e-003**		**1.4800e-003**	**1.4800e-003**	**0.0000**	**7.1473**	**7.1473**	**1.1000e-003**	**0.0000**	**7.1748**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0000e-005	1.3700e-003	3.6000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3742	0.3742	1.0000e-005	0.0000	0.3745
Worker	1.9000e-004	1.5000e-004	1.4200e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3661	0.3661	1.0000e-005	0.0000	0.3664
Total	**2.2000e-004**	**1.5200e-003**	**1.7800e-003**	**0.0000**	**5.7000e-004**	**0.0000**	**5.8000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.7403**	**0.7403**	**2.0000e-005**	**0.0000**	**0.7409**

3.10 Filters - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.8200e-003	0.0360	0.0425	8.0000e-005		1.5500e-003	1.5500e-003		1.4800e-003	1.4800e-003	0.0000	7.1473	7.1473	1.1000e-003	0.0000	7.1748
Total	**3.8200e-003**	**0.0360**	**0.0425**	**8.0000e-005**		**1.5500e-003**	**1.5500e-003**		**1.4800e-003**	**1.4800e-003**	**0.0000**	**7.1473**	**7.1473**	**1.1000e-003**	**0.0000**	**7.1748**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0000e-005	1.3700e-003	3.6000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3742	0.3742	1.0000e-005	0.0000	0.3745
Worker	1.9000e-004	1.5000e-004	1.4200e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3661	0.3661	1.0000e-005	0.0000	0.3664
Total	**2.2000e-004**	**1.5200e-003**	**1.7800e-003**	**0.0000**	**5.7000e-004**	**0.0000**	**5.8000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.7403**	**0.7403**	**2.0000e-005**	**0.0000**	**0.7409**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.8200e-003	0.0360	0.0425	8.0000e-005		1.5500e-003	1.5500e-003		1.4800e-003	1.4800e-003	0.0000	7.1473	7.1473	1.1000e-003	0.0000	7.1748
Total	**3.8200e-003**	**0.0360**	**0.0425**	**8.0000e-005**		**1.5500e-003**	**1.5500e-003**		**1.4800e-003**	**1.4800e-003**	**0.0000**	**7.1473**	**7.1473**	**1.1000e-003**	**0.0000**	**7.1748**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0000e-005	1.3700e-003	3.6000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3742	0.3742	1.0000e-005	0.0000	0.3745
Worker	1.9000e-004	1.5000e-004	1.4200e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3661	0.3661	1.0000e-005	0.0000	0.3664
Total	**2.2000e-004**	**1.5200e-003**	**1.7800e-003**	**0.0000**	**5.7000e-004**	**0.0000**	**5.8000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.7403**	**0.7403**	**2.0000e-005**	**0.0000**	**0.7409**

3.11 MCC installation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.5500e-003	0.0240	0.0283	5.0000e-005		1.0300e-003	1.0300e-003		9.9000e-004	9.9000e-004	0.0000	4.7649	4.7649	7.3000e-004	0.0000	4.7832
Total	**2.5500e-003**	**0.0240**	**0.0283**	**5.0000e-005**		**1.0300e-003**	**1.0300e-003**		**9.9000e-004**	**9.9000e-004**	**0.0000**	**4.7649**	**4.7649**	**7.3000e-004**	**0.0000**	**4.7832**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	9.2000e-004	2.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2495	0.2495	1.0000e-005	0.0000	0.2497
Worker	1.3000e-004	1.0000e-004	9.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2441	0.2441	1.0000e-005	0.0000	0.2443
Total	**1.5000e-004**	**1.0200e-003**	**1.1900e-003**	**0.0000**	**3.9000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.4935**	**0.4935**	**2.0000e-005**	**0.0000**	**0.4939**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.5500e-003	0.0240	0.0283	5.0000e-005		1.0300e-003	1.0300e-003		9.9000e-004	9.9000e-004	0.0000	4.7649	4.7649	7.3000e-004	0.0000	4.7832
Total	**2.5500e-003**	**0.0240**	**0.0283**	**5.0000e-005**		**1.0300e-003**	**1.0300e-003**		**9.9000e-004**	**9.9000e-004**	**0.0000**	**4.7649**	**4.7649**	**7.3000e-004**	**0.0000**	**4.7832**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	9.2000e-004	2.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2495	0.2495	1.0000e-005	0.0000	0.2497

Worker	1.3000e-004	1.0000e-004	9.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2441	0.2441	1.0000e-005	0.0000	0.2443
Total	**1.5000e-004**	**1.0200e-003**	**1.1900e-003**	**0.0000**	**3.9000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.4935**	**0.4935**	**2.0000e-005**	**0.0000**	**0.4939**

3.12 Facility startup and testing - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2700e-003	0.0120	0.0142	3.0000e-005		5.2000e-004	5.2000e-004		4.9000e-004	4.9000e-004	0.0000	2.3825	2.3825	3.7000e-004	0.0000	2.3916
Total	**1.2700e-003**	**0.0120**	**0.0142**	**3.0000e-005**		**5.2000e-004**	**5.2000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**2.3825**	**2.3825**	**3.7000e-004**	**0.0000**	**2.3916**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1247	0.1247	0.0000	0.0000	0.1248
Worker	5.0000e-005	4.0000e-005	3.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0915	0.0915	0.0000	0.0000	0.0916
Total	**6.0000e-005**	**5.0000e-004**	**4.8000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2163**	**0.2163**	**0.0000**	**0.0000**	**0.2164**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2700e-003	0.0120	0.0142	3.0000e-005		5.2000e-004	5.2000e-004		4.9000e-004	4.9000e-004	0.0000	2.3824	2.3824	3.7000e-004	0.0000	2.3916
Total	**1.2700e-003**	**0.0120**	**0.0142**	**3.0000e-005**		**5.2000e-004**	**5.2000e-004**		**4.9000e-004**	**4.9000e-004**	**0.0000**	**2.3824**	**2.3824**	**3.7000e-004**	**0.0000**	**2.3916**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1247	0.1247	0.0000	0.0000	0.1248
Worker	5.0000e-005	4.0000e-005	3.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0915	0.0915	0.0000	0.0000	0.0916
Total	**6.0000e-005**	**5.0000e-004**	**4.8000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2163**	**0.2163**	**0.0000**	**0.0000**	**0.2164**

3.13 Architectural coatings - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	4.3000e-004	2.8600e-003	4.5200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.6383	0.6383	3.0000e-005	0.0000	0.6392
Total	**0.0110**	**2.8600e-003**	**4.5200e-003**	**1.0000e-005**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**	**0.0000**	**0.6383**	**0.6383**	**3.0000e-005**	**0.0000**	**0.6392**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0153	0.0153	0.0000	0.0000	0.0153
Total	**1.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0153**	**0.0153**	**0.0000**	**0.0000**	**0.0153**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3000e-004	2.8600e-003	4.5200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.6383	0.6383	3.0000e-005	0.0000	0.6392
Total	**0.0110**	**2.8600e-003**	**4.5200e-003**	**1.0000e-005**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**	**0.0000**	**0.6383**	**0.6383**	**3.0000e-005**	**0.0000**	**0.6392**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0153	0.0153	0.0000	0.0000	0.0153
Total	**1.0000e-005**	**1.0000e-005**	**6.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0153**	**0.0153**	**0.0000**	**0.0000**	**0.0153**

3.14 Demobilization - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8400e-003	0.0181	0.0253	4.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	3.5907	3.5907	1.1600e-003	0.0000	3.6198
Total	**1.8400e-003**	**0.0181**	**0.0253**	**4.0000e-005**		**8.1000e-004**	**8.1000e-004**		**7.5000e-004**	**7.5000e-004**	**0.0000**	**3.5907**	**3.5907**	**1.1600e-003**	**0.0000**	**3.6198**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1247	0.1247	0.0000	0.0000	0.1248
Worker	5.0000e-005	4.0000e-005	3.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0915	0.0915	0.0000	0.0000	0.0916
Total	**6.0000e-005**	**5.0000e-004**	**4.8000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2163**	**0.2163**	**0.0000**	**0.0000**	**0.2164**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8400e-003	0.0181	0.0253	4.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	3.5907	3.5907	1.1600e-003	0.0000	3.6198
Total	**1.8400e-003**	**0.0181**	**0.0253**	**4.0000e-005**		**8.1000e-004**	**8.1000e-004**		**7.5000e-004**	**7.5000e-004**	**0.0000**	**3.5907**	**3.5907**	**1.1600e-003**	**0.0000**	**3.6198**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1247	0.1247	0.0000	0.0000	0.1248
Worker	5.0000e-005	4.0000e-005	3.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0915	0.0915	0.0000	0.0000	0.0916
Total	**6.0000e-005**	**5.0000e-004**	**4.8000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.2163**	**0.2163**	**0.0000**	**0.0000**	**0.2164**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.590151	0.025976	0.205990	0.112108	0.016651	0.004427	0.021270	0.012848	0.001229	0.002212	0.005302	0.000981	0.000854
Other Asphalt Surfaces	0.590151	0.025976	0.205990	0.112108	0.016651	0.004427	0.021270	0.012848	0.001229	0.002212	0.005302	0.000981	0.000854

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.4700e-003	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
Unmitigated	5.4700e-003	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	7.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.4000e-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	4.0000e-005	4.0000e-005	0.0000	0.0000	4.0000e-005
Total	**5.4700e-003**	**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**

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	7.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.4000e-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	4.0000e-005	4.0000e-005	0.0000	0.0000	4.0000e-005
Total	**5.4700e-003**	**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**

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

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
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

Mitigated	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - ASR Treatment Facility Construction

Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.23	1000sqft	0.03	1,225.00	0
Other Asphalt Surfaces	0.22	Acre	0.22	9,583.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - ASR Treatment Faciity Construction

Land Use - Surrogate land uses for ASR facilities

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Grading - 100 CY of material assumed to be exported and 2.5 acres assumed to be total disturbed based on model default and multiple passes with the grader

Trips and VMT - Construction vehicle information based on City input

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Architectural Coating - Default coating EF

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	613	50
tblAreaCoating	Area_Nonresidential_Interior	1838	150
tblAreaCoating	Area_Parking	575	0
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	20.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	25.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	PhaseEndDate	1/5/2025	1/10/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	4/4/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	5/16/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	6/20/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	7/4/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	7/25/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	8/15/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	8/29/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	9/5/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	9/12/2025

tblConstructionPhase	PhaseStartDate	1/6/2025	3/10/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	4/7/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	5/19/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	6/23/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	7/6/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	7/28/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	8/18/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	9/1/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	9/8/2025
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	5.00	2.50
tblGrading	MaterialExported	0.00	100.00
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets

tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
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tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
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tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
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tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1.53	0.00
tblTripsAndVMT	HaulingTripNumber	13.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00

tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	13.00	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	284,437.50	0.00

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					
2025	4.9151	15.4969	23.5176	0.0401	0.6722	0.5984	1.2171	0.0955	0.5855	0.6068	0.0000	3,775.8780	3,775.8780	0.9212	0.0000	3,786.2818
Maximum	**4.9151**	**15.4969**	**23.5176**	**0.0401**	**0.6722**	**0.5984**	**1.2171**	**0.0955**	**0.5855**	**0.6068**	**0.0000**	**3,775.8780**	**3,775.8780**	**0.9212**	**0.0000**	**3,786.2818**

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					
2025	4.9151	15.4969	23.5176	0.0401	0.3806	0.5984	0.9255	0.0640	0.5855	0.6068	0.0000	3,775.8780	3,775.8780	0.9212	0.0000	3,786.2818
Maximum	**4.9151**	**15.4969**	**23.5176**	**0.0401**	**0.3806**	**0.5984**	**0.9255**	**0.0640**	**0.5855**	**0.6068**	**0.0000**	**3,775.8780**	**3,775.8780**	**0.9212**	**0.0000**	**3,786.2818**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**43.38**	**0.00**	**23.96**	**32.97**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0300	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		3.2000e-004	3.2000e-004	0.0000		3.4000e-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
Total	**0.0300**	**0.0000**	**1.5000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**3.2000e-004**	**3.2000e-004**	**0.0000**	**0.0000**	**3.4000e-004**

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	0.0300	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		3.2000e-004	3.2000e-004	0.0000		3.4000e-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
Total	**0.0300**	**0.0000**	**1.5000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**3.2000e-004**	**3.2000e-004**	**0.0000**	**0.0000**	**3.4000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Mobilization	Site Preparation	1/6/2025	1/10/2025	5	5	
2	Earthwork and Compaction	Grading	1/13/2025	1/24/2025	5	10	
3	Subgrade pipeline and electrical	Trenching	1/27/2025	3/7/2025	5	30	
4	Foundations and slabs	Building Construction	3/10/2025	4/4/2025	5	20	
5	Building construction	Building Construction	4/7/2025	5/16/2025	5	30	
6	Tank construction	Building Construction	5/19/2025	6/20/2025	5	25	
7	Equipment installation	Building Construction	6/23/2025	7/4/2025	5	10	
8	Wellhead slab	Building Construction	7/6/2025	7/25/2025	5	15	
9	Filters	Building Construction	7/28/2025	8/15/2025	5	15	
10	MCC installation	Building Construction	8/18/2025	8/29/2025	5	10	
11	Facility startup and testing	Building Construction	9/1/2025	9/5/2025	5	5	
12	Architectural coatings	Architectural Coating	9/1/2025	9/5/2025	5	5	
13	Demobilization	Building Construction	9/8/2025	9/12/2025	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.22

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,838; Non-Residential Outdoor: 613; Striped Parking Area: 575

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building construction	Cranes	0	0.00	231	0.29
Tank construction	Cranes	1	4.00	231	0.29
Equipment installation	Cranes	1	4.00	231	0.29
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Wellhead slab	Cranes	1	4.00	231	0.29
Filters	Cranes	1	4.00	231	0.29
MCC installation	Cranes	1	4.00	231	0.29
Foundations and slabs	Cranes	0	0.00	231	0.29
Foundations and slabs	Forklifts	1	8.00	89	0.20
Foundations and slabs	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Facility startup and testing	Cranes	1	4.00	231	0.29
Earthwork and Compaction	Concrete/Industrial Saws	0	0.00	81	0.73
Demobilization	Cranes	1	4.00	231	0.29
Building construction	Forklifts	1	8.00	89	0.20
Tank construction	Forklifts	1	8.00	89	0.20
Equipment installation	Forklifts	1	8.00	89	0.20
Wellhead slab	Forklifts	1	8.00	89	0.20
Filters	Forklifts	1	8.00	89	0.20
MCC installation	Forklifts	1	8.00	89	0.20
Facility startup and testing	Forklifts	1	8.00	89	0.20
Earthwork and Compaction	Rubber Tired Dozers	0	0.00	247	0.40
Demobilization	Forklifts	1	8.00	89	0.20
Building construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Tank construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Equipment installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Wellhead slab	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Filters	Tractors/Loaders/Backhoes	0	0.00	97	0.37
MCC installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Facility startup and testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Earthwork and Compaction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Earthwork and Compaction	Graders	1	8.00	187	0.41
Building construction	Aerial Lifts	1	8.00	63	0.31
Building construction	Cement and Mortar Mixers	1	8.00	9	0.56
Tank construction	Generator Sets	1	8.00	84	0.74
Equipment installation	Generator Sets	1	8.00	84	0.74
Wellhead slab	Generator Sets	1	8.00	84	0.74
Demobilization	Pavers	1	4.00	130	0.42
Demobilization	Paving Equipment	1	4.00	132	0.36
Demobilization	Rollers	1	4.00	80	0.38
Architectural coatings	Air Compressors	1	6.00	78	0.48
Filters	Generator Sets	1	8.00	84	0.74
MCC installation	Generator Sets	1	8.00	84	0.74
Facility startup and testing	Generator Sets	1	8.00	84	0.74
Subgrade pipeline and electrical	Concrete/Industrial Saws	1	8.00	81	0.73
Subgrade pipeline and electrical	Excavators	1	8.00	158	0.38
Subgrade pipeline and electrical	Forklifts	1	8.00	89	0.20
Subgrade pipeline and electrical	Pumps	1	8.00	84	0.74
Subgrade pipeline and electrical	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Foundations and slabs	Aerial Lifts	1	8.00	63	0.31
Foundations and slabs	Cement and Mortar Mixers	1	8.00	9	0.56
Foundations and slabs	Generator Sets	4	8.00	84	0.74
Foundations and slabs	Welders	1	8.00	46	0.45
Building construction	Generator Sets	4	8.00	84	0.74
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
Building construction	10	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Foundations and slabs	10	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Tank construction	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Equipment installation	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead slab	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Mobilization	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Filters	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
MCC installation	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	3	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Earthwork and Compaction	3	8.00	2.00	8.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Subgrade pipeline and electrical	5	8.00	4.00	6.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural coatings	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Mobilization - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019		1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.5303**	**0.2194**	**0.7497**	**0.0573**	**0.2019**	**0.2591**		**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019	0.0000	1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.2386**	**0.2194**	**0.4581**	**0.0258**	**0.2019**	**0.2277**	**0.0000**	**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

Mitigated Construction Off-Site

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

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

3.3 Earthwork and Compaction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2660	0.0000	0.2660	0.0288	0.0000	0.0288			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019		1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.2660**	**0.2194**	**0.4854**	**0.0288**	**0.2019**	**0.2307**		**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	4.1600e-003	0.1627	0.0473	6.1000e-004	0.0139	4.5000e-004	0.0143	3.7900e-003	4.3000e-004	4.2200e-003		65.5337	65.5337	2.5800e-003		65.5981
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696

Total	**0.0342**	**0.3615**	**0.2891**	**1.7000e-003**	**0.0931**	**1.2600e-003**	**0.0943**	**0.0251**	**1.1800e-003**	**0.0263**		**177.4612**	**177.4612**	**6.1300e-003**		**177.6145**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1197	0.0000	0.1197	0.0129	0.0000	0.0129			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019	0.0000	1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.1197**	**0.2194**	**0.3391**	**0.0129**	**0.2019**	**0.2148**	**0.0000**	**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1600e-003	0.1627	0.0473	6.1000e-004	0.0139	4.5000e-004	0.0143	3.7900e-003	4.3000e-004	4.2200e-003		65.5337	65.5337	2.5800e-003		65.5981
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0342**	**0.3615**	**0.2891**	**1.7000e-003**	**0.0931**	**1.2600e-003**	**0.0943**	**0.0251**	**1.1800e-003**	**0.0263**		**177.4612**	**177.4612**	**6.1300e-003**		**177.6145**

3.4 Subgrade pipeline and electrical - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9681	8.0755	13.9960	0.0227		0.3518	0.3518		0.3391	0.3391		2,168.1421	2,168.1421	0.3593		2,177.1253
Total	**0.9681**	**8.0755**	**13.9960**	**0.0227**		**0.3518**	**0.3518**		**0.3391**	**0.3391**		**2,168.1421**	**2,168.1421**	**0.3593**		**2,177.1253**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0400e-003	0.0407	0.0118	1.5000e-004	3.4700e-003	1.1000e-004	3.5800e-003	9.5000e-004	1.1000e-004	1.0600e-003		16.3834	16.3834	6.4000e-004		16.3995
Vendor	9.0800e-003	0.3634	0.0902	1.0500e-003	0.0270	6.5000e-004	0.0276	7.7600e-003	6.2000e-004	8.3800e-003		110.9994	110.9994	3.7700e-003		111.0937
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0356**	**0.4212**	**0.2987**	**1.7700e-003**	**0.0962**	**1.2400e-003**	**0.0974**	**0.0261**	**1.1700e-003**	**0.0273**		**183.8107**	**183.8107**	**6.0800e-003**		**183.9628**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9681	8.0755	13.9960	0.0227		0.3518	0.3518		0.3391	0.3391	0.0000	2,168.1421	2,168.1421	0.3593		2,177.1253
Total	**0.9681**	**8.0755**	**13.9960**	**0.0227**		**0.3518**	**0.3518**		**0.3391**	**0.3391**	**0.0000**	**2,168.1421**	**2,168.1421**	**0.3593**		**2,177.1253**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0400e-003	0.0407	0.0118	1.5000e-004	3.4700e-003	1.1000e-004	3.5800e-003	9.5000e-004	1.1000e-004	1.0600e-003		16.3834	16.3834	6.4000e-004		16.3995
Vendor	9.0800e-003	0.3634	0.0902	1.0500e-003	0.0270	6.5000e-004	0.0276	7.7600e-003	6.2000e-004	8.3800e-003		110.9994	110.9994	3.7700e-003		111.0937
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0356**	**0.4212**	**0.2987**	**1.7700e-003**	**0.0962**	**1.2400e-003**	**0.0974**	**0.0261**	**1.1700e-003**	**0.0273**		**183.8107**	**183.8107**	**6.0800e-003**		**183.9628**

3.5 Foundations and slabs - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7291	15.2981	23.2758	0.0390		0.5976	0.5976		0.5847	0.5847		3,663.9505	3,663.9505	0.4126		3,674.2654
Total	**1.7291**	**15.2981**	**23.2758**	**0.0390**		**0.5976**	**0.5976**		**0.5847**	**0.5847**		**3,663.9505**	**3,663.9505**	**0.4126**		**3,674.2654**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7291	15.2981	23.2758	0.0390		0.5976	0.5976		0.5847	0.5847	0.0000	3,663.9505	3,663.9505	0.4126		3,674.2654
Total	**1.7291**	**15.2981**	**23.2758**	**0.0390**		**0.5976**	**0.5976**		**0.5847**	**0.5847**	**0.0000**	**3,663.9505**	**3,663.9505**	**0.4126**		**3,674.2654**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468

Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

3.6 Building construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7291	15.2981	23.2758	0.0390		0.5976	0.5976		0.5847	0.5847		3,663.9505	3,663.9505	0.4126		3,674.2654
Total	**1.7291**	**15.2981**	**23.2758**	**0.0390**		**0.5976**	**0.5976**		**0.5847**	**0.5847**		**3,663.9505**	**3,663.9505**	**0.4126**		**3,674.2654**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7291	15.2981	23.2758	0.0390		0.5976	0.5976		0.5847	0.5847	0.0000	3,663.9505	3,663.9505	0.4126		3,674.2654
Total	**1.7291**	**15.2981**	**23.2758**	**0.0390**		**0.5976**	**0.5976**		**0.5847**	**0.5847**	**0.0000**	**3,663.9505**	**3,663.9505**	**0.4126**		**3,674.2654**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

3.7 Tank construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976		1,050.4785	1,050.4785	0.1613		1,054.5102

Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**		**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976	0.0000	1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**	**0.0000**	**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

3.8 Equipment installation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976		1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**		**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Unmitigated Construction Off-Site

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

Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976	0.0000	1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**	**0.0000**	**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

3.9 Wellhead slab - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976		1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**		**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976	0.0000	1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**	**0.0000**	**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

3.10 Filters - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976		1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**		**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976	0.0000	1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**	**0.0000**	**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

3.11 MCC installation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976		1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**		**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976	0.0000	1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**	**0.0000**	**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0255	0.0171	0.1967	5.7000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		56.4279	56.4279	1.6700e-003		56.4696
Total	**0.0301**	**0.1988**	**0.2418**	**1.0900e-003**	**0.0792**	**8.1000e-004**	**0.0800**	**0.0213**	**7.5000e-004**	**0.0221**		**111.9276**	**111.9276**	**3.5500e-003**		**112.0164**

3.12 Facility startup and testing - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976		1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**		**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0191	0.0128	0.1476	4.2000e-004	0.0493	3.6000e-004	0.0497	0.0131	3.3000e-004	0.0134		42.3209	42.3209	1.2500e-003		42.3522
Total	**0.0237**	**0.1945**	**0.1926**	**9.4000e-004**	**0.0628**	**6.9000e-004**	**0.0635**	**0.0170**	**6.4000e-004**	**0.0176**		**97.8206**	**97.8206**	**3.1300e-003**		**97.8990**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976	0.0000	1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**	**0.0000**	**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0191	0.0128	0.1476	4.2000e-004	0.0493	3.6000e-004	0.0497	0.0131	3.3000e-004	0.0134		42.3209	42.3209	1.2500e-003		42.3522
Total	**0.0237**	**0.1945**	**0.1926**	**9.4000e-004**	**0.0628**	**6.9000e-004**	**0.0635**	**0.0170**	**6.4000e-004**	**0.0176**		**97.8206**	**97.8206**	**3.1300e-003**		**97.8990**

3.13 Architectural coatings - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.2077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**4.3785**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

Unmitigated Construction Off-Site

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

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.1900e-003	2.1300e-003	0.0246	7.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.0535	7.0535	2.1000e-004		7.0587
Total	**3.1900e-003**	**2.1300e-003**	**0.0246**	**7.0000e-005**	**8.2100e-003**	**6.0000e-005**	**8.2700e-003**	**2.1800e-003**	**5.0000e-005**	**2.2300e-003**		**7.0535**	**7.0535**	**2.1000e-004**		**7.0587**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.2077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**4.3785**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.1900e-003	2.1300e-003	0.0246	7.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.0535	7.0535	2.1000e-004		7.0587

Total	**3.1900e-003**	**2.1300e-003**	**0.0246**	**7.0000e-005**	**8.2100e-003**	**6.0000e-005**	**8.2700e-003**	**2.1800e-003**	**5.0000e-005**	**2.2300e-003**		**7.0535**	**7.0535**	**2.1000e-004**		**7.0587**

3.14 Demobilization - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7363	7.2181	10.1058	0.0164		0.3240	0.3240		0.2981	0.2981		1,583.2419	1,583.2419	0.5121		1,596.0433
Total	**0.7363**	**7.2181**	**10.1058**	**0.0164**		**0.3240**	**0.3240**		**0.2981**	**0.2981**		**1,583.2419**	**1,583.2419**	**0.5121**		**1,596.0433**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0191	0.0128	0.1476	4.2000e-004	0.0493	3.6000e-004	0.0497	0.0131	3.3000e-004	0.0134		42.3209	42.3209	1.2500e-003		42.3522
Total	**0.0237**	**0.1945**	**0.1926**	**9.4000e-004**	**0.0628**	**6.9000e-004**	**0.0635**	**0.0170**	**6.4000e-004**	**0.0176**		**97.8206**	**97.8206**	**3.1300e-003**		**97.8990**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7363	7.2181	10.1058	0.0164		0.3240	0.3240		0.2981	0.2981	0.0000	1,583.2419	1,583.2419	0.5121		1,596.0433
Total	**0.7363**	**7.2181**	**10.1058**	**0.0164**		**0.3240**	**0.3240**		**0.2981**	**0.2981**	**0.0000**	**1,583.2419**	**1,583.2419**	**0.5121**		**1,596.0433**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.5400e-003	0.1817	0.0451	5.2000e-004	0.0135	3.3000e-004	0.0138	3.8800e-003	3.1000e-004	4.1900e-003		55.4997	55.4997	1.8800e-003		55.5468
Worker	0.0191	0.0128	0.1476	4.2000e-004	0.0493	3.6000e-004	0.0497	0.0131	3.3000e-004	0.0134		42.3209	42.3209	1.2500e-003		42.3522
Total	**0.0237**	**0.1945**	**0.1926**	**9.4000e-004**	**0.0628**	**6.9000e-004**	**0.0635**	**0.0170**	**6.4000e-004**	**0.0176**		**97.8206**	**97.8206**	**3.1300e-003**		**97.8990**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.590151	0.025976	0.205990	0.112108	0.016651	0.004427	0.021270	0.012848	0.001229	0.002212	0.005302	0.000981	0.000854
Other Asphalt Surfaces	0.590151	0.025976	0.205990	0.112108	0.016651	0.004427	0.021270	0.012848	0.001229	0.002212	0.005302	0.000981	0.000854

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0300	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		3.2000e-004	3.2000e-004	0.0000		3.4000e-004
Unmitigated	0.0300	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		3.2000e-004	3.2000e-004	0.0000		3.4000e-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	3.8000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		3.2000e-004	3.2000e-004	0.0000		3.4000e-004
Total	**0.0300**	**0.0000**	**1.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**3.2000e-004**	**3.2000e-004**	**0.0000**		**3.4000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.8000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		3.2000e-004	3.2000e-004	0.0000		3.4000e-004
Total	**0.0300**	**0.0000**	**1.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**3.2000e-004**	**3.2000e-004**	**0.0000**		**3.4000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - ASR Treatment Facility Construction

Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	1.23	1000sqft	0.03	1,225.00	0
Other Asphalt Surfaces	0.22	Acre	0.22	9,583.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - ASR Treatment Faciity Construction

Land Use - Surrogate land uses for ASR facilities

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Grading - 100 CY of material assumed to be exported and 2.5 acres assumed to be total disturbed based on model default and multiple passes with the grader

Trips and VMT - Construction vehicle information based on City input

Vehicle Trips - Modeling construction only

Consumer Products - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Architectural Coating - Default coating EF

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	613	50
tblAreaCoating	Area_Nonresidential_Interior	1838	150
tblAreaCoating	Area_Parking	575	0
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	20.00
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	NumDays	100.00	25.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	PhaseEndDate	1/5/2025	1/10/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	4/4/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	5/16/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	6/20/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	7/4/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	7/25/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	8/15/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	8/29/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	9/5/2025
tblConstructionPhase	PhaseEndDate	1/5/2025	9/12/2025

tblConstructionPhase	PhaseStartDate	1/6/2025	3/10/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	4/7/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	5/19/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	6/23/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	7/6/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	7/28/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	8/18/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	9/1/2025
tblConstructionPhase	PhaseStartDate	1/6/2025	9/8/2025
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	5.00	2.50
tblGrading	MaterialExported	0.00	100.00
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets

tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1.53	0.00
tblTripsAndVMT	HaulingTripNumber	13.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00

tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	8.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	13.00	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	284,437.50	0.00

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					
2025	4.9183	15.5017	23.5237	0.0401	0.6722	0.5984	1.2172	0.0955	0.5855	0.6068	0.0000	3,772.0170	3,772.0170	0.9213	0.0000	3,782.4222
Maximum	**4.9183**	**15.5017**	**23.5237**	**0.0401**	**0.6722**	**0.5984**	**1.2172**	**0.0955**	**0.5855**	**0.6068**	**0.0000**	**3,772.0170**	**3,772.0170**	**0.9213**	**0.0000**	**3,782.4222**

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					
2025	4.9183	15.5017	23.5237	0.0401	0.3806	0.5984	0.9255	0.0640	0.5855	0.6068	0.0000	3,772.0170	3,772.0170	0.9213	0.0000	3,782.4222
Maximum	**4.9183**	**15.5017**	**23.5237**	**0.0401**	**0.3806**	**0.5984**	**0.9255**	**0.0640**	**0.5855**	**0.6068**	**0.0000**	**3,772.0170**	**3,772.0170**	**0.9213**	**0.0000**	**3,782.4222**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**43.38**	**0.00**	**23.96**	**32.97**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0300	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		3.2000e-004	3.2000e-004	0.0000		3.4000e-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
Total	**0.0300**	**0.0000**	**1.5000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**3.2000e-004**	**3.2000e-004**	**0.0000**	**0.0000**	**3.4000e-004**

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	0.0300	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		3.2000e-004	3.2000e-004	0.0000		3.4000e-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
Total	**0.0300**	**0.0000**	**1.5000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**3.2000e-004**	**3.2000e-004**	**0.0000**	**0.0000**	**3.4000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Mobilization	Site Preparation	1/6/2025	1/10/2025	5	5	
2	Earthwork and Compaction	Grading	1/13/2025	1/24/2025	5	10	
3	Subgrade pipeline and electrical	Trenching	1/27/2025	3/7/2025	5	30	
4	Foundations and slabs	Building Construction	3/10/2025	4/4/2025	5	20	
5	Building construction	Building Construction	4/7/2025	5/16/2025	5	30	
6	Tank construction	Building Construction	5/19/2025	6/20/2025	5	25	
7	Equipment installation	Building Construction	6/23/2025	7/4/2025	5	10	
8	Wellhead slab	Building Construction	7/6/2025	7/25/2025	5	15	
9	Filters	Building Construction	7/28/2025	8/15/2025	5	15	
10	MCC installation	Building Construction	8/18/2025	8/29/2025	5	10	
11	Facility startup and testing	Building Construction	9/1/2025	9/5/2025	5	5	
12	Architectural coatings	Architectural Coating	9/1/2025	9/5/2025	5	5	
13	Demobilization	Building Construction	9/8/2025	9/12/2025	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.22

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,838; Non-Residential Outdoor: 613; Striped Parking Area: 575

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building construction	Cranes	0	0.00	231	0.29
Tank construction	Cranes	1	4.00	231	0.29
Equipment installation	Cranes	1	4.00	231	0.29
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Wellhead slab	Cranes	1	4.00	231	0.29
Filters	Cranes	1	4.00	231	0.29
MCC installation	Cranes	1	4.00	231	0.29
Foundations and slabs	Cranes	0	0.00	231	0.29
Foundations and slabs	Forklifts	1	8.00	89	0.20
Foundations and slabs	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Facility startup and testing	Cranes	1	4.00	231	0.29
Earthwork and Compaction	Concrete/Industrial Saws	0	0.00	81	0.73
Demobilization	Cranes	1	4.00	231	0.29
Building construction	Forklifts	1	8.00	89	0.20
Tank construction	Forklifts	1	8.00	89	0.20
Equipment installation	Forklifts	1	8.00	89	0.20
Wellhead slab	Forklifts	1	8.00	89	0.20
Filters	Forklifts	1	8.00	89	0.20
MCC installation	Forklifts	1	8.00	89	0.20
Facility startup and testing	Forklifts	1	8.00	89	0.20
Earthwork and Compaction	Rubber Tired Dozers	0	0.00	247	0.40
Demobilization	Forklifts	1	8.00	89	0.20
Building construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Tank construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Equipment installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Wellhead slab	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Filters	Tractors/Loaders/Backhoes	0	0.00	97	0.37
MCC installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Facility startup and testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Earthwork and Compaction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demobilization	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Earthwork and Compaction	Graders	1	8.00	187	0.41
Building construction	Aerial Lifts	1	8.00	63	0.31
Building construction	Cement and Mortar Mixers	1	8.00	9	0.56
Tank construction	Generator Sets	1	8.00	84	0.74
Equipment installation	Generator Sets	1	8.00	84	0.74
Wellhead slab	Generator Sets	1	8.00	84	0.74
Demobilization	Pavers	1	4.00	130	0.42
Demobilization	Paving Equipment	1	4.00	132	0.36
Demobilization	Rollers	1	4.00	80	0.38
Architectural coatings	Air Compressors	1	6.00	78	0.48
Filters	Generator Sets	1	8.00	84	0.74
MCC installation	Generator Sets	1	8.00	84	0.74
Facility startup and testing	Generator Sets	1	8.00	84	0.74
Subgrade pipeline and electrical	Concrete/Industrial Saws	1	8.00	81	0.73
Subgrade pipeline and electrical	Excavators	1	8.00	158	0.38
Subgrade pipeline and electrical	Forklifts	1	8.00	89	0.20
Subgrade pipeline and electrical	Pumps	1	8.00	84	0.74
Subgrade pipeline and electrical	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Foundations and slabs	Aerial Lifts	1	8.00	63	0.31
Foundations and slabs	Cement and Mortar Mixers	1	8.00	9	0.56
Foundations and slabs	Generator Sets	4	8.00	84	0.74
Foundations and slabs	Welders	1	8.00	46	0.45
Building construction	Generator Sets	4	8.00	84	0.74
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
Building construction	10	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Foundations and slabs	10	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Tank construction	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Equipment installation	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Wellhead slab	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Mobilization	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Filters	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
MCC installation	3	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Facility startup and testing	3	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Earthwork and Compaction	3	8.00	2.00	8.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demobilization	7	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Subgrade pipeline and electrical	5	8.00	4.00	6.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural coatings	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Mobilization - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019		1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.5303**	**0.2194**	**0.7497**	**0.0573**	**0.2019**	**0.2591**		**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019	0.0000	1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.2386**	**0.2194**	**0.4581**	**0.0258**	**0.2019**	**0.2277**	**0.0000**	**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

Mitigated Construction Off-Site

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

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

3.3 Earthwork and Compaction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.2660	0.0000	0.2660	0.0288	0.0000	0.0288			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019		1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.2660**	**0.2194**	**0.4854**	**0.0288**	**0.2019**	**0.2307**		**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	4.2700e-003	0.1651	0.0495	6.0000e-004	0.0139	4.7000e-004	0.0143	3.7900e-003	4.5000e-004	4.2300e-003		64.6186	64.6186	2.6600e-003		64.6851
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054

Total	**0.0379**	**0.3687**	**0.2974**	**1.6500e-003**	**0.0931**	**1.3000e-003**	**0.0944**	**0.0251**	**1.2200e-003**	**0.0263**		**172.6852**	**172.6852**	**6.2700e-003**		**172.8419**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1197	0.0000	0.1197	0.0129	0.0000	0.0129			0.0000			0.0000
Off-Road	0.5754	6.1269	6.0534	0.0129		0.2194	0.2194		0.2019	0.2019	0.0000	1,244.3513	1,244.3513	0.4025		1,254.4125
Total	**0.5754**	**6.1269**	**6.0534**	**0.0129**	**0.1197**	**0.2194**	**0.3391**	**0.0129**	**0.2019**	**0.2148**	**0.0000**	**1,244.3513**	**1,244.3513**	**0.4025**		**1,254.4125**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2700e-003	0.1651	0.0495	6.0000e-004	0.0139	4.7000e-004	0.0143	3.7900e-003	4.5000e-004	4.2300e-003		64.6186	64.6186	2.6600e-003		64.6851
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0379**	**0.3687**	**0.2974**	**1.6500e-003**	**0.0931**	**1.3000e-003**	**0.0944**	**0.0251**	**1.2200e-003**	**0.0263**		**172.6852**	**172.6852**	**6.2700e-003**		**172.8419**

3.4 Subgrade pipeline and electrical - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9681	8.0755	13.9960	0.0227		0.3518	0.3518		0.3391	0.3391		2,168.1421	2,168.1421	0.3593		2,177.1253
Total	**0.9681**	**8.0755**	**13.9960**	**0.0227**		**0.3518**	**0.3518**		**0.3391**	**0.3391**		**2,168.1421**	**2,168.1421**	**0.3593**		**2,177.1253**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0700e-003	0.0413	0.0124	1.5000e-004	3.4700e-003	1.2000e-004	3.5800e-003	9.5000e-004	1.1000e-004	1.0600e-003		16.1547	16.1547	6.6000e-004		16.1713
Vendor	9.6700e-003	0.3647	0.1017	1.0200e-003	0.0270	6.9000e-004	0.0277	7.7600e-003	6.6000e-004	8.4200e-003		108.6023	108.6023	4.0200e-003		108.7027
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0396**	**0.4272**	**0.3111**	**1.7100e-003**	**0.0962**	**1.2900e-003**	**0.0974**	**0.0261**	**1.2100e-003**	**0.0274**		**178.5224**	**178.5224**	**6.2800e-003**		**178.6794**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.9681	8.0755	13.9960	0.0227		0.3518	0.3518		0.3391	0.3391	0.0000	2,168.1421	2,168.1421	0.3593		2,177.1253
Total	**0.9681**	**8.0755**	**13.9960**	**0.0227**		**0.3518**	**0.3518**		**0.3391**	**0.3391**	**0.0000**	**2,168.1421**	**2,168.1421**	**0.3593**		**2,177.1253**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0700e-003	0.0413	0.0124	1.5000e-004	3.4700e-003	1.2000e-004	3.5800e-003	9.5000e-004	1.1000e-004	1.0600e-003		16.1547	16.1547	6.6000e-004		16.1713
Vendor	9.6700e-003	0.3647	0.1017	1.0200e-003	0.0270	6.9000e-004	0.0277	7.7600e-003	6.6000e-004	8.4200e-003		108.6023	108.6023	4.0200e-003		108.7027
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0396**	**0.4272**	**0.3111**	**1.7100e-003**	**0.0962**	**1.2900e-003**	**0.0974**	**0.0261**	**1.2100e-003**	**0.0274**		**178.5224**	**178.5224**	**6.2800e-003**		**178.6794**

3.5 Foundations and slabs - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7291	15.2981	23.2758	0.0390		0.5976	0.5976		0.5847	0.5847		3,663.9505	3,663.9505	0.4126		3,674.2654
Total	**1.7291**	**15.2981**	**23.2758**	**0.0390**		**0.5976**	**0.5976**		**0.5847**	**0.5847**		**3,663.9505**	**3,663.9505**	**0.4126**		**3,674.2654**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7291	15.2981	23.2758	0.0390		0.5976	0.5976		0.5847	0.5847	0.0000	3,663.9505	3,663.9505	0.4126		3,674.2654
Total	**1.7291**	**15.2981**	**23.2758**	**0.0390**		**0.5976**	**0.5976**		**0.5847**	**0.5847**	**0.0000**	**3,663.9505**	**3,663.9505**	**0.4126**		**3,674.2654**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514

Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

3.6 Building construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7291	15.2981	23.2758	0.0390		0.5976	0.5976		0.5847	0.5847		3,663.9505	3,663.9505	0.4126		3,674.2654
Total	**1.7291**	**15.2981**	**23.2758**	**0.0390**		**0.5976**	**0.5976**		**0.5847**	**0.5847**		**3,663.9505**	**3,663.9505**	**0.4126**		**3,674.2654**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7291	15.2981	23.2758	0.0390		0.5976	0.5976		0.5847	0.5847	0.0000	3,663.9505	3,663.9505	0.4126		3,674.2654
Total	**1.7291**	**15.2981**	**23.2758**	**0.0390**		**0.5976**	**0.5976**		**0.5847**	**0.5847**	**0.0000**	**3,663.9505**	**3,663.9505**	**0.4126**		**3,674.2654**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

3.7 Tank construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976		1,050.4785	1,050.4785	0.1613		1,054.5102

Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**		**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976	0.0000	1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**	**0.0000**	**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

3.8 Equipment installation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976		1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**		**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Unmitigated Construction Off-Site

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

Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976	0.0000	1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**	**0.0000**	**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

3.9 Wellhead slab - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976		1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**		**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976	0.0000	1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**	**0.0000**	**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

3.10 Filters - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976		1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**		**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976	0.0000	1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**	**0.0000**	**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

3.11 MCC installation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976		1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**		**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976	0.0000	1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**	**0.0000**	**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0288	0.0212	0.1971	5.4000e-004	0.0657	4.8000e-004	0.0662	0.0174	4.4000e-004	0.0179		53.7654	53.7654	1.6000e-003		53.8054
Total	**0.0337**	**0.2036**	**0.2479**	**1.0500e-003**	**0.0792**	**8.3000e-004**	**0.0800**	**0.0213**	**7.7000e-004**	**0.0221**		**108.0666**	**108.0666**	**3.6100e-003**		**108.1568**

3.12 Facility startup and testing - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976		1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**		**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0216	0.0159	0.1478	4.0000e-004	0.0493	3.6000e-004	0.0497	0.0131	3.3000e-004	0.0134		40.3240	40.3240	1.2000e-003		40.3541
Total	**0.0265**	**0.1983**	**0.1987**	**9.1000e-004**	**0.0628**	**7.1000e-004**	**0.0635**	**0.0170**	**6.6000e-004**	**0.0176**		**94.6252**	**94.6252**	**3.2100e-003**		**94.7055**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5097	4.7980	5.6615	0.0110		0.2065	0.2065		0.1976	0.1976	0.0000	1,050.4785	1,050.4785	0.1613		1,054.5102
Total	**0.5097**	**4.7980**	**5.6615**	**0.0110**		**0.2065**	**0.2065**		**0.1976**	**0.1976**	**0.0000**	**1,050.4785**	**1,050.4785**	**0.1613**		**1,054.5102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0216	0.0159	0.1478	4.0000e-004	0.0493	3.6000e-004	0.0497	0.0131	3.3000e-004	0.0134		40.3240	40.3240	1.2000e-003		40.3541
Total	**0.0265**	**0.1983**	**0.1987**	**9.1000e-004**	**0.0628**	**7.1000e-004**	**0.0635**	**0.0170**	**6.6000e-004**	**0.0176**		**94.6252**	**94.6252**	**3.2100e-003**		**94.7055**

3.13 Architectural coatings - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.2077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**4.3785**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

Unmitigated Construction Off-Site

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

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.6000e-003	2.6500e-003	0.0246	7.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		6.7207	6.7207	2.0000e-004		6.7257
Total	**3.6000e-003**	**2.6500e-003**	**0.0246**	**7.0000e-005**	**8.2100e-003**	**6.0000e-005**	**8.2700e-003**	**2.1800e-003**	**5.0000e-005**	**2.2300e-003**		**6.7207**	**6.7207**	**2.0000e-004**		**6.7257**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.2077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**4.3785**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	3.6000e-003	2.6500e-003	0.0246	7.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		6.7207	6.7207	2.0000e-004		6.7257

Total	**3.6000e-003**	**2.6500e-003**	**0.0246**	**7.0000e-005**	**8.2100e-003**	**6.0000e-005**	**8.2700e-003**	**2.1800e-003**	**5.0000e-005**	**2.2300e-003**		**6.7207**	**6.7207**	**2.0000e-004**		**6.7257**

3.14 Demobilization - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7363	7.2181	10.1058	0.0164		0.3240	0.3240		0.2981	0.2981		1,583.2419	1,583.2419	0.5121		1,596.0433
Total	**0.7363**	**7.2181**	**10.1058**	**0.0164**		**0.3240**	**0.3240**		**0.2981**	**0.2981**		**1,583.2419**	**1,583.2419**	**0.5121**		**1,596.0433**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0216	0.0159	0.1478	4.0000e-004	0.0493	3.6000e-004	0.0497	0.0131	3.3000e-004	0.0134		40.3240	40.3240	1.2000e-003		40.3541
Total	**0.0265**	**0.1983**	**0.1987**	**9.1000e-004**	**0.0628**	**7.1000e-004**	**0.0635**	**0.0170**	**6.6000e-004**	**0.0176**		**94.6252**	**94.6252**	**3.2100e-003**		**94.7055**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.7363	7.2181	10.1058	0.0164		0.3240	0.3240		0.2981	0.2981	0.0000	1,583.2419	1,583.2419	0.5121		1,596.0433
Total	**0.7363**	**7.2181**	**10.1058**	**0.0164**		**0.3240**	**0.3240**		**0.2981**	**0.2981**	**0.0000**	**1,583.2419**	**1,583.2419**	**0.5121**		**1,596.0433**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.8300e-003	0.1824	0.0509	5.1000e-004	0.0135	3.5000e-004	0.0138	3.8800e-003	3.3000e-004	4.2100e-003		54.3012	54.3012	2.0100e-003		54.3514
Worker	0.0216	0.0159	0.1478	4.0000e-004	0.0493	3.6000e-004	0.0497	0.0131	3.3000e-004	0.0134		40.3240	40.3240	1.2000e-003		40.3541
Total	**0.0265**	**0.1983**	**0.1987**	**9.1000e-004**	**0.0628**	**7.1000e-004**	**0.0635**	**0.0170**	**6.6000e-004**	**0.0176**		**94.6252**	**94.6252**	**3.2100e-003**		**94.7055**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.590151	0.025976	0.205990	0.112108	0.016651	0.004427	0.021270	0.012848	0.001229	0.002212	0.005302	0.000981	0.000854
Other Asphalt Surfaces	0.590151	0.025976	0.205990	0.112108	0.016651	0.004427	0.021270	0.012848	0.001229	0.002212	0.005302	0.000981	0.000854

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0300	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		3.2000e-004	3.2000e-004	0.0000		3.4000e-004
Unmitigated	0.0300	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		3.2000e-004	3.2000e-004	0.0000		3.4000e-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	3.8000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		3.2000e-004	3.2000e-004	0.0000		3.4000e-004
Total	**0.0300**	**0.0000**	**1.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**3.2000e-004**	**3.2000e-004**	**0.0000**		**3.4000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.8000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		3.2000e-004	3.2000e-004	0.0000		3.4000e-004
Total	**0.0300**	**0.0000**	**1.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**3.2000e-004**	**3.2000e-004**	**0.0000**		**3.4000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Intertie Connection City SqCWD-CWD

Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	24.00	1000sqft	0.55	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intertie Connection City SqCWD-CWD construction

Land Use - Surrogate land use for intertie connection

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Off-road Equipment - Equipment based on City inputv

Off-road Equipment - Equipment based on City input

Off-road Equipment - Equipment based on City input

Grading - Estimated 1,267 CY of excavated material for export and 0.5 acre total graded

Trips and VMT - Construction vehicle information based on City input

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	2.00	135.00
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	PhaseEndDate	10/4/2022	11/9/2022
tblConstructionPhase	PhaseEndDate	9/20/2022	11/16/2022
tblConstructionPhase	PhaseEndDate	5/3/2022	11/5/2022
tblConstructionPhase	PhaseEndDate	9/27/2022	11/9/2022
tblConstructionPhase	PhaseStartDate	9/28/2022	10/12/2022
tblConstructionPhase	PhaseStartDate	5/4/2022	11/10/2022
tblConstructionPhase	PhaseStartDate	9/21/2022	10/12/2022
tblGrading	AcresOfGrading	67.50	0.50
tblGrading	MaterialExported	0.00	1,267.00
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00

tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	4.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	10.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00

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					
2022	0.0806	0.8237	0.7477	1.5400e-003	9.3500e-003	0.0325	0.0419	2.5000e-003	0.0300	0.0325	0.0000	136.8461	136.8461	0.0373	0.0000	137.7787
Maximum	**0.0806**	**0.8237**	**0.7477**	**1.5400e-003**	**9.3500e-003**	**0.0325**	**0.0419**	**2.5000e-003**	**0.0300**	**0.0325**	**0.0000**	**136.8461**	**136.8461**	**0.0373**	**0.0000**	**137.7787**

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					
2022	0.0806	0.8237	0.7477	1.5400e-003	9.1800e-003	0.0325	0.0417	2.4800e-003	0.0300	0.0325	0.0000	136.8459	136.8459	0.0373	0.0000	137.7786
Maximum	**0.0806**	**0.8237**	**0.7477**	**1.5400e-003**	**9.1800e-003**	**0.0325**	**0.0417**	**2.4800e-003**	**0.0300**	**0.0325**	**0.0000**	**136.8459**	**136.8459**	**0.0373**	**0.0000**	**137.7786**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**1.82**	**0.00**	**0.43**	**0.80**	**0.00**	**0.06**	**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	**5-1-2022**	**7-31-2022**	0.4010	0.4010
2	**8-1-2022**	**9-30-2022**	0.2659	0.2659
		Highest	0.4010	0.4010

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	2.0800e-003	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.3000e-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	0.0000	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	**2.0800e-003**	**0.0000**	**3.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**6.0000e-004**	**6.0000e-004**	**0.0000**	**0.0000**	**6.3000e-004**

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	2.0800e-003	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.3000e-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	0.0000	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	**2.0800e-003**	**0.0000**	**3.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**6.0000e-004**	**6.0000e-004**	**0.0000**	**0.0000**	**6.3000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Pipeline installation	Grading	5/1/2022	11/5/2022	5	135	
2	Paving	Paving	10/12/2022	11/9/2022	5	21	
3	Architectural Coating	Architectural Coating	10/12/2022	11/9/2022	5	21	
4	Testing	Building Construction	11/10/2022	11/16/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.55

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,440

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Paving Equipment	1	4.00	132	0.36
Testing	Generator Sets	1	8.00	84	0.74
Pipeline installation	Concrete/Industrial Saws	0	0.00	81	0.73
Pipeline installation	Rubber Tired Dozers	0	0.00	247	0.40
Pipeline installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Testing	Cranes	0	0.00	231	0.29
Testing	Forklifts	0	0.00	89	0.20
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Pavers	1	4.00	130	0.42
Paving	Rollers	1	4.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Pipeline installation	Graders	1	8.00	187	0.41
Pipeline installation	Excavators	1	8.00	158	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
Architectural Coating	1	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline installation	4	8.00	4.00	158.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Pipeline installation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.2000e-004	0.0000	3.2000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0639	0.7010	0.6381	1.2200e-003		0.0293	0.0293		0.0269	0.0269	0.0000	106.7798	106.7798	0.0345	0.0000	107.6432
Total	**0.0639**	**0.7010**	**0.6381**	**1.2200e-003**	**3.2000e-004**	**0.0293**	**0.0296**	**4.0000e-005**	**0.0269**	**0.0270**	**0.0000**	**106.7798**	**106.7798**	**0.0345**	**0.0000**	**107.6432**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.7000e-004	0.0231	5.3400e-003	6.0000e-005	1.3200e-003	9.0000e-005	1.4100e-003	3.6000e-004	8.0000e-005	4.5000e-004	0.0000	6.0662	6.0662	2.5000e-004	0.0000	6.0723
Vendor	8.8000e-004	0.0313	8.0700e-003	7.0000e-005	1.7700e-003	9.0000e-005	1.8600e-003	5.1000e-004	9.0000e-005	6.0000e-004	0.0000	6.9311	6.9311	2.7000e-004	0.0000	6.9378
Worker	2.1200e-003	1.8000e-003	0.0165	4.0000e-005	4.2700e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	3.7014	3.7014	1.4000e-004	0.0000	3.7048
Total	**3.5700e-003**	**0.0562**	**0.0300**	**1.7000e-004**	**7.3600e-003**	**2.1000e-004**	**7.5800e-003**	**2.0100e-003**	**2.0000e-004**	**2.2200e-003**	**0.0000**	**16.6986**	**16.6986**	**6.6000e-004**	**0.0000**	**16.7149**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.4000e-004	0.0000	1.4000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0639	0.7010	0.6381	1.2200e-003		0.0293	0.0293		0.0269	0.0269	0.0000	106.7797	106.7797	0.0345	0.0000	107.6431
Total	**0.0639**	**0.7010**	**0.6381**	**1.2200e-003**	**1.4000e-004**	**0.0293**	**0.0294**	**2.0000e-005**	**0.0269**	**0.0269**	**0.0000**	**106.7797**	**106.7797**	**0.0345**	**0.0000**	**107.6431**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.7000e-004	0.0231	5.3400e-003	6.0000e-005	1.3200e-003	9.0000e-005	1.4100e-003	3.6000e-004	8.0000e-005	4.5000e-004	0.0000	6.0662	6.0662	2.5000e-004	0.0000	6.0723
Vendor	8.8000e-004	0.0313	8.0700e-003	7.0000e-005	1.7700e-003	9.0000e-005	1.8600e-003	5.1000e-004	9.0000e-005	6.0000e-004	0.0000	6.9311	6.9311	2.7000e-004	0.0000	6.9378
Worker	2.1200e-003	1.8000e-003	0.0165	4.0000e-005	4.2700e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	3.7014	3.7014	1.4000e-004	0.0000	3.7048
Total	**3.5700e-003**	**0.0562**	**0.0300**	**1.7000e-004**	**7.3600e-003**	**2.1000e-004**	**7.5800e-003**	**2.0100e-003**	**2.0000e-004**	**2.2200e-003**	**0.0000**	**16.6986**	**16.6986**	**6.6000e-004**	**0.0000**	**16.7149**

3.3 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	2.8900e-003	0.0292	0.0383	6.0000e-005		1.4900e-003	1.4900e-003		1.3700e-003	1.3700e-003	0.0000	5.2572	5.2572	1.7000e-003	0.0000	5.2997
Paving	7.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Total	**3.6100e-003**	**0.0292**	**0.0383**	**6.0000e-005**		**1.4900e-003**	**1.4900e-003**		**1.3700e-003**	**1.3700e-003**	**0.0000**	**5.2572**	**5.2572**	**1.7000e-003**	**0.0000**	**5.2997**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4000e-004	4.8700e-003	1.2600e-003	1.0000e-005	2.7000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.0782	1.0782	4.0000e-005	0.0000	1.0792
Worker	3.3000e-004	2.8000e-004	2.5700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	0.5758	0.5758	2.0000e-005	0.0000	0.5763
Total	**4.7000e-004**	**5.1500e-003**	**3.8300e-003**	**2.0000e-005**	**9.3000e-004**	**2.0000e-005**	**9.6000e-004**	**2.6000e-004**	**2.0000e-005**	**2.7000e-004**	**0.0000**	**1.6539**	**1.6539**	**6.0000e-005**	**0.0000**	**1.6555**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.8900e-003	0.0292	0.0383	6.0000e-005		1.4900e-003	1.4900e-003		1.3700e-003	1.3700e-003	0.0000	5.2572	5.2572	1.7000e-003	0.0000	5.2997
Paving	7.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.6100e-003**	**0.0292**	**0.0383**	**6.0000e-005**		**1.4900e-003**	**1.4900e-003**		**1.3700e-003**	**1.3700e-003**	**0.0000**	**5.2572**	**5.2572**	**1.7000e-003**	**0.0000**	**5.2997**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4000e-004	4.8700e-003	1.2600e-003	1.0000e-005	2.7000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.0782	1.0782	4.0000e-005	0.0000	1.0792
Worker	3.3000e-004	2.8000e-004	2.5700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.7000e-004	1.8000e-004	1.0000e-005	1.8000e-004	0.0000	0.5758	0.5758	2.0000e-005	0.0000	0.5763
Total	**4.7000e-004**	**5.1500e-003**	**3.8300e-003**	**2.0000e-005**	**9.3000e-004**	**2.0000e-005**	**9.6000e-004**	**2.6000e-004**	**2.0000e-005**	**2.7000e-004**	**0.0000**	**1.6539**	**1.6539**	**6.0000e-005**	**0.0000**	**1.6555**

3.4 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	5.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8600e-003	0.0197	0.0254	4.0000e-005		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	3.5746	3.5746	2.3000e-004	0.0000	3.5804
Total	**7.8700e-003**	**0.0197**	**0.0254**	**4.0000e-005**		**1.1400e-003**	**1.1400e-003**		**1.1400e-003**	**1.1400e-003**	**0.0000**	**3.5746**	**3.5746**	**2.3000e-004**	**0.0000**	**3.5804**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4000e-004	4.8700e-003	1.2600e-003	1.0000e-005	2.7000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.0782	1.0782	4.0000e-005	0.0000	1.0792

Worker	1.6000e-004	1.4000e-004	1.2900e-003	0.0000	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2879	0.2879	1.0000e-005	0.0000	0.2882
Total	**3.0000e-004**	**5.0100e-003**	**2.5500e-003**	**1.0000e-005**	**6.0000e-004**	**1.0000e-005**	**6.3000e-004**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**1.3661**	**1.3661**	**5.0000e-005**	**0.0000**	**1.3674**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8600e-003	0.0197	0.0254	4.0000e-005		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	3.5746	3.5746	2.3000e-004	0.0000	3.5804
Total	**7.8700e-003**	**0.0197**	**0.0254**	**4.0000e-005**		**1.1400e-003**	**1.1400e-003**		**1.1400e-003**	**1.1400e-003**	**0.0000**	**3.5746**	**3.5746**	**2.3000e-004**	**0.0000**	**3.5804**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4000e-004	4.8700e-003	1.2600e-003	1.0000e-005	2.7000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.0782	1.0782	4.0000e-005	0.0000	1.0792
Worker	1.6000e-004	1.4000e-004	1.2900e-003	0.0000	3.3000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2879	0.2879	1.0000e-005	0.0000	0.2882
Total	**3.0000e-004**	**5.0100e-003**	**2.5500e-003**	**1.0000e-005**	**6.0000e-004**	**1.0000e-005**	**6.3000e-004**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**1.3661**	**1.3661**	**5.0000e-005**	**0.0000**	**1.3674**

3.5 Testing - 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	8.2000e-004	7.3200e-003	9.1900e-003	2.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	1.4130	1.4130	7.0000e-005	0.0000	1.4147
Total	**8.2000e-004**	**7.3200e-003**	**9.1900e-003**	**2.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**1.4130**	**1.4130**	**7.0000e-005**	**0.0000**	**1.4147**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1028	0.1028	0.0000	0.0000	0.1029
Total	**6.0000e-005**	**5.0000e-005**	**4.6000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1028**	**0.1028**	**0.0000**	**0.0000**	**0.1029**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.2000e-004	7.3200e-003	9.1900e-003	2.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	1.4130	1.4130	7.0000e-005	0.0000	1.4147

Total	**8.2000e-004**	**7.3200e-003**	**9.1900e-003**	**2.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**1.4130**	**1.4130**	**7.0000e-005**	**0.0000**	**1.4147**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1028	0.1028	0.0000	0.0000	0.1029
Total	**6.0000e-005**	**5.0000e-005**	**4.6000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1028**	**0.1028**	**0.0000**	**0.0000**	**0.1029**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058
Other Asphalt Surfaces	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0800e-003	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.3000e-004
Unmitigated	2.0800e-003	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.3000e-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	5.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.3000e-004
Total	**2.0800e-003**	**0.0000**	**3.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.0000e-004**	**6.0000e-004**	**0.0000**	**0.0000**	**6.3000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.3000e-004

Total	**2.0800e-003**	**0.0000**	**3.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.0000e-004**	**6.0000e-004**	**0.0000**	**0.0000**	**6.3000e-004**

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

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
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Intertie Connection City SqCWD-CWD

Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	24.00	1000sqft	0.55	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intertie Connection City SqCWD-CWD construction

Land Use - Surrogate land use for intertie connection

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Off-road Equipment - Equipment based on City inputv

Off-road Equipment - Equipment based on City input

Off-road Equipment - Equipment based on City input

Grading - Estimated 1,267 CY of excavated material for export and 0.5 acre total graded

Trips and VMT - Construction vehicle information based on City input

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	2.00	135.00
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	PhaseEndDate	10/4/2022	11/9/2022
tblConstructionPhase	PhaseEndDate	9/20/2022	11/16/2022
tblConstructionPhase	PhaseEndDate	5/3/2022	11/5/2022
tblConstructionPhase	PhaseEndDate	9/27/2022	11/9/2022
tblConstructionPhase	PhaseStartDate	9/28/2022	10/12/2022
tblConstructionPhase	PhaseStartDate	5/4/2022	11/10/2022
tblConstructionPhase	PhaseStartDate	9/21/2022	10/12/2022
tblGrading	AcresOfGrading	67.50	0.50
tblGrading	MaterialExported	0.00	1,267.00
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00

tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	4.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	10.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00

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					
2022	2.1644	16.8154	16.5640	0.0334	0.2702	0.6910	0.9612	0.0729	0.6446	0.7175	0.0000	3,271.6888	3,271.6888	0.7894	0.0000	3,291.4240
Maximum	**2.1644**	**16.8154**	**16.5640**	**0.0334**	**0.2702**	**0.6910**	**0.9612**	**0.0729**	**0.6446**	**0.7175**	**0.0000**	**3,271.6888**	**3,271.6888**	**0.7894**	**0.0000**	**3,291.4240**

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					
2022	2.1644	16.8154	16.5640	0.0334	0.2676	0.6910	0.9586	0.0726	0.6446	0.7172	0.0000	3,271.6888	3,271.6888	0.7894	0.0000	3,291.4240
Maximum	**2.1644**	**16.8154**	**16.5640**	**0.0334**	**0.2676**	**0.6910**	**0.9586**	**0.0726**	**0.6446**	**0.7172**	**0.0000**	**3,271.6888**	**3,271.6888**	**0.7894**	**0.0000**	**3,291.4240**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.97**	**0.00**	**0.27**	**0.41**	**0.00**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0115	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-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
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
Total	**0.0115**	**2.0000e-005**	**2.4500e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**	**0.0000**	**5.6000e-003**

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	0.0115	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-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
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
Total	**0.0115**	**2.0000e-005**	**2.4500e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**	**0.0000**	**5.6000e-003**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Pipeline installation	Grading	5/1/2022	11/5/2022	5	135	
2	Paving	Paving	10/12/2022	11/9/2022	5	21	
3	Architectural Coating	Architectural Coating	10/12/2022	11/9/2022	5	21	
4	Testing	Building Construction	11/10/2022	11/16/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.55

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,440

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Paving Equipment	1	4.00	132	0.36
Testing	Generator Sets	1	8.00	84	0.74

Pipeline installation	Concrete/Industrial Saws	0	0.00	81	0.73
Pipeline installation	Rubber Tired Dozers	0	0.00	247	0.40
Pipeline installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Testing	Cranes	0	0.00	231	0.29
Testing	Forklifts	0	0.00	89	0.20
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Pavers	1	4.00	130	0.42
Paving	Rollers	1	4.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Pipeline installation	Graders	1	8.00	187	0.41
Pipeline installation	Excavators	1	8.00	158	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
Architectural Coating	1	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline installation	4	8.00	4.00	158.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Pipeline installation - 2022

Unmitigated Construction On-Site

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

Category	lb/day										lb/day					
Fugitive Dust					4.7500e-003	0.0000	4.7500e-003	5.5000e-004	0.0000	5.5000e-004			0.0000			0.0000
Off-Road	0.9468	10.3859	9.4528	0.0180		0.4334	0.4334		0.3987	0.3987		1,743.7721	1,743.7721	0.5640		1,757.8714
Total	**0.9468**	**10.3859**	**9.4528**	**0.0180**	**4.7500e-003**	**0.4334**	**0.4381**	**5.5000e-004**	**0.3987**	**0.3992**		**1,743.7721**	**1,743.7721**	**0.5640**		**1,757.8714**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.3000e-003	0.3365	0.0774	9.3000e-004	0.0203	1.2700e-003	0.0215	5.5400e-003	1.2100e-003	6.7500e-003		99.6360	99.6360	3.9600e-003		99.7350
Vendor	0.0127	0.4585	0.1125	1.0800e-003	0.0270	1.3700e-003	0.0283	7.7500e-003	1.3100e-003	9.0600e-003		114.2117	114.2117	4.2600e-003		114.3183
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0520**	**0.8183**	**0.4432**	**2.6500e-003**	**0.1130**	**3.1600e-003**	**0.1161**	**0.0307**	**3.0000e-003**	**0.0337**		**277.2343**	**277.2343**	**0.0105**		**277.4974**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.1400e-003	0.0000	2.1400e-003	2.5000e-004	0.0000	2.5000e-004			0.0000			0.0000
Off-Road	0.9468	10.3859	9.4528	0.0180		0.4334	0.4334		0.3987	0.3987	0.0000	1,743.7721	1,743.7721	0.5640		1,757.8714
Total	**0.9468**	**10.3859**	**9.4528**	**0.0180**	**2.1400e-003**	**0.4334**	**0.4355**	**2.5000e-004**	**0.3987**	**0.3989**	**0.0000**	**1,743.7721**	**1,743.7721**	**0.5640**		**1,757.8714**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.3000e-003	0.3365	0.0774	9.3000e-004	0.0203	1.2700e-003	0.0215	5.5400e-003	1.2100e-003	6.7500e-003		99.6360	99.6360	3.9600e-003		99.7350
Vendor	0.0127	0.4585	0.1125	1.0800e-003	0.0270	1.3700e-003	0.0283	7.7500e-003	1.3100e-003	9.0600e-003		114.2117	114.2117	4.2600e-003		114.3183
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0520**	**0.8183**	**0.4432**	**2.6500e-003**	**0.1130**	**3.1600e-003**	**0.1161**	**0.0307**	**3.0000e-003**	**0.0337**		**277.2343**	**277.2343**	**0.0105**		**277.4974**

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2757	2.7812	3.6451	5.7000e-003		0.1420	0.1420		0.1306	0.1306		551.9151	551.9151	0.1785		556.3776
Paving	0.0686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3443**	**2.7812**	**3.6451**	**5.7000e-003**		**0.1420**	**0.1420**		**0.1306**	**0.1306**		**551.9151**	**551.9151**	**0.1785**		**556.3776**

Unmitigated Construction Off-Site

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

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0127	0.4585	0.1125	1.0800e-003	0.0270	1.3700e-003	0.0283	7.7500e-003	1.3100e-003	9.0600e-003		114.2117	114.2117	4.2600e-003		114.3183
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0437**	**0.4819**	**0.3657**	**1.7200e-003**	**0.0927**	**1.8900e-003**	**0.0946**	**0.0252**	**1.7900e-003**	**0.0270**		**177.5983**	**177.5983**	**6.5600e-003**		**177.7624**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2757	2.7812	3.6451	5.7000e-003		0.1420	0.1420		0.1306	0.1306	0.0000	551.9151	551.9151	0.1785		556.3776
Paving	0.0686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3443**	**2.7812**	**3.6451**	**5.7000e-003**		**0.1420**	**0.1420**		**0.1306**	**0.1306**	**0.0000**	**551.9151**	**551.9151**	**0.1785**		**556.3776**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0127	0.4585	0.1125	1.0800e-003	0.0270	1.3700e-003	0.0283	7.7500e-003	1.3100e-003	9.0600e-003		114.2117	114.2117	4.2600e-003		114.3183
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441

Total	**0.0437**	**0.4819**	**0.3657**	**1.7200e-003**	**0.0927**	**1.8900e-003**	**0.0946**	**0.0252**	**1.7900e-003**	**0.0270**		**177.5983**	**177.5983**	**6.5600e-003**		**177.7624**

3.4 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	0.4767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**0.7495**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0127	0.4585	0.1125	1.0800e-003	0.0270	1.3700e-003	0.0283	7.7500e-003	1.3100e-003	9.0600e-003		114.2117	114.2117	4.2600e-003		114.3183
Worker	0.0155	0.0117	0.1266	3.2000e-004	0.0329	2.6000e-004	0.0331	8.7200e-003	2.4000e-004	8.9500e-003		31.6933	31.6933	1.1500e-003		31.7221
Total	**0.0282**	**0.4702**	**0.2391**	**1.4000e-003**	**0.0598**	**1.6300e-003**	**0.0615**	**0.0165**	**1.5500e-003**	**0.0180**		**145.9050**	**145.9050**	**5.4100e-003**		**146.0403**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**0.7495**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0127	0.4585	0.1125	1.0800e-003	0.0270	1.3700e-003	0.0283	7.7500e-003	1.3100e-003	9.0600e-003		114.2117	114.2117	4.2600e-003		114.3183
Worker	0.0155	0.0117	0.1266	3.2000e-004	0.0329	2.6000e-004	0.0331	8.7200e-003	2.4000e-004	8.9500e-003		31.6933	31.6933	1.1500e-003		31.7221
Total	**0.0282**	**0.4702**	**0.2391**	**1.4000e-003**	**0.0598**	**1.6300e-003**	**0.0615**	**0.0165**	**1.5500e-003**	**0.0180**		**145.9050**	**145.9050**	**5.4100e-003**		**146.0403**

3.5 Testing - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3300	2.9283	3.6759	6.5800e-003		0.1469	0.1469		0.1469	0.1469		623.0346	623.0346	0.0296		623.7746
Total	**0.3300**	**2.9283**	**3.6759**	**6.5800e-003**		**0.1469**	**0.1469**		**0.1469**	**0.1469**		**623.0346**	**623.0346**	**0.0296**		**623.7746**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0232	0.0175	0.1899	4.8000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.5400	47.5400	1.7300e-003		47.5831
Total	**0.0232**	**0.0175**	**0.1899**	**4.8000e-004**	**0.0493**	**3.9000e-004**	**0.0497**	**0.0131**	**3.6000e-004**	**0.0134**		**47.5400**	**47.5400**	**1.7300e-003**		**47.5831**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3300	2.9283	3.6759	6.5800e-003		0.1469	0.1469		0.1469	0.1469	0.0000	623.0346	623.0346	0.0296		623.7746
Total	**0.3300**	**2.9283**	**3.6759**	**6.5800e-003**		**0.1469**	**0.1469**		**0.1469**	**0.1469**	**0.0000**	**623.0346**	**623.0346**	**0.0296**		**623.7746**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0232	0.0175	0.1899	4.8000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.5400	47.5400	1.7300e-003		47.5831
Total	**0.0232**	**0.0175**	**0.1899**	**4.8000e-004**	**0.0493**	**3.9000e-004**	**0.0497**	**0.0131**	**3.6000e-004**	**0.0134**		**47.5400**	**47.5400**	**1.7300e-003**		**47.5831**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058
Other Asphalt Surfaces	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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

Mitigated	0.0115	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Unmitigated	0.0115	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-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	lb/day										lb/day					
Architectural Coating	2.7400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.5000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Total	**0.0115**	**2.0000e-005**	**2.4500e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**		**5.6000e-003**

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	2.7400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.5000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Total	**0.0115**	**2.0000e-005**	**2.4500e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**		**5.6000e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Intertie Connection City SqCWD-CWD

Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	24.00	1000sqft	0.55	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intertie Connection City SqCWD-CWD construction

Land Use - Surrogate land use for intertie connection

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Off-road Equipment - Equipment based on City inputv

Off-road Equipment - Equipment based on City input

Off-road Equipment - Equipment based on City input

Grading - Estimated 1,267 CY of excavated material for export and 0.5 acre total graded

Trips and VMT - Construction vehicle information based on City input

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	2.00	135.00
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	PhaseEndDate	10/4/2022	11/9/2022
tblConstructionPhase	PhaseEndDate	9/20/2022	11/16/2022
tblConstructionPhase	PhaseEndDate	5/3/2022	11/5/2022
tblConstructionPhase	PhaseEndDate	9/27/2022	11/9/2022
tblConstructionPhase	PhaseStartDate	9/28/2022	10/12/2022
tblConstructionPhase	PhaseStartDate	5/4/2022	11/10/2022
tblConstructionPhase	PhaseStartDate	9/21/2022	10/12/2022
tblGrading	AcresOfGrading	67.50	0.50
tblGrading	MaterialExported	0.00	1,267.00
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00

tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	4.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	10.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00

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					
2022	2.1766	16.8460	16.6204	0.0333	0.2702	0.6912	0.9614	0.0729	0.6448	0.7178	0.0000	3,255.5427	3,255.5427	0.7903	0.0000	3,275.2989
Maximum	**2.1766**	**16.8460**	**16.6204**	**0.0333**	**0.2702**	**0.6912**	**0.9614**	**0.0729**	**0.6448**	**0.7178**	**0.0000**	**3,255.5427**	**3,255.5427**	**0.7903**	**0.0000**	**3,275.2989**

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					
2022	2.1766	16.8460	16.6204	0.0333	0.2676	0.6912	0.9588	0.0726	0.6448	0.7175	0.0000	3,255.5427	3,255.5427	0.7903	0.0000	3,275.2989
Maximum	**2.1766**	**16.8460**	**16.6204**	**0.0333**	**0.2676**	**0.6912**	**0.9588**	**0.0726**	**0.6448**	**0.7175**	**0.0000**	**3,255.5427**	**3,255.5427**	**0.7903**	**0.0000**	**3,275.2989**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.97**	**0.00**	**0.27**	**0.41**	**0.00**	**0.04**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0115	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-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
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
Total	**0.0115**	**2.0000e-005**	**2.4500e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**	**0.0000**	**5.6000e-003**

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	0.0115	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-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
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
Total	**0.0115**	**2.0000e-005**	**2.4500e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**	**0.0000**	**5.6000e-003**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Pipeline installation	Grading	5/1/2022	11/5/2022	5	135	
2	Paving	Paving	10/12/2022	11/9/2022	5	21	
3	Architectural Coating	Architectural Coating	10/12/2022	11/9/2022	5	21	
4	Testing	Building Construction	11/10/2022	11/16/2022	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.55

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,440

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Paving Equipment	1	4.00	132	0.36
Testing	Generator Sets	1	8.00	84	0.74

Pipeline installation	Concrete/Industrial Saws	0	0.00	81	0.73
Pipeline installation	Rubber Tired Dozers	0	0.00	247	0.40
Pipeline installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Testing	Cranes	0	0.00	231	0.29
Testing	Forklifts	0	0.00	89	0.20
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Pavers	1	4.00	130	0.42
Paving	Rollers	1	4.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Pipeline installation	Graders	1	8.00	187	0.41
Pipeline installation	Excavators	1	8.00	158	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
Architectural Coating	1	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline installation	4	8.00	4.00	158.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Pipeline installation - 2022

Unmitigated Construction On-Site

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

Category	lb/day										lb/day					
Fugitive Dust					4.7500e-003	0.0000	4.7500e-003	5.5000e-004	0.0000	5.5000e-004			0.0000			0.0000
Off-Road	0.9468	10.3859	9.4528	0.0180		0.4334	0.4334		0.3987	0.3987		1,743.7721	1,743.7721	0.5640		1,757.8714
Total	**0.9468**	**10.3859**	**9.4528**	**0.0180**	**4.7500e-003**	**0.4334**	**0.4381**	**5.5000e-004**	**0.3987**	**0.3992**		**1,743.7721**	**1,743.7721**	**0.5640**		**1,757.8714**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.5300e-003	0.3430	0.0817	9.2000e-004	0.0203	1.3100e-003	0.0216	5.5400e-003	1.2500e-003	6.7900e-003		98.2739	98.2739	4.1000e-003		98.3764
Vendor	0.0135	0.4618	0.1278	1.0500e-003	0.0270	1.4400e-003	0.0284	7.7500e-003	1.3700e-003	9.1300e-003		111.7770	111.7770	4.5600e-003		111.8909
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0568**	**0.8338**	**0.4652**	**2.5800e-003**	**0.1130**	**3.2700e-003**	**0.1162**	**0.0307**	**3.1000e-003**	**0.0338**		**270.4455**	**270.4455**	**0.0109**		**270.7177**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.1400e-003	0.0000	2.1400e-003	2.5000e-004	0.0000	2.5000e-004			0.0000			0.0000
Off-Road	0.9468	10.3859	9.4528	0.0180		0.4334	0.4334		0.3987	0.3987	0.0000	1,743.7721	1,743.7721	0.5640		1,757.8714
Total	**0.9468**	**10.3859**	**9.4528**	**0.0180**	**2.1400e-003**	**0.4334**	**0.4355**	**2.5000e-004**	**0.3987**	**0.3989**	**0.0000**	**1,743.7721**	**1,743.7721**	**0.5640**		**1,757.8714**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.5300e-003	0.3430	0.0817	9.2000e-004	0.0203	1.3100e-003	0.0216	5.5400e-003	1.2500e-003	6.7900e-003		98.2739	98.2739	4.1000e-003		98.3764
Vendor	0.0135	0.4618	0.1278	1.0500e-003	0.0270	1.4400e-003	0.0284	7.7500e-003	1.3700e-003	9.1300e-003		111.7770	111.7770	4.5600e-003		111.8909
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0568**	**0.8338**	**0.4652**	**2.5800e-003**	**0.1130**	**3.2700e-003**	**0.1162**	**0.0307**	**3.1000e-003**	**0.0338**		**270.4455**	**270.4455**	**0.0109**		**270.7177**

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2757	2.7812	3.6451	5.7000e-003		0.1420	0.1420		0.1306	0.1306		551.9151	551.9151	0.1785		556.3776
Paving	0.0686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3443**	**2.7812**	**3.6451**	**5.7000e-003**		**0.1420**	**0.1420**		**0.1306**	**0.1306**		**551.9151**	**551.9151**	**0.1785**		**556.3776**

Unmitigated Construction Off-Site

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

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0135	0.4618	0.1278	1.0500e-003	0.0270	1.4400e-003	0.0284	7.7500e-003	1.3700e-003	9.1300e-003		111.7770	111.7770	4.5600e-003		111.8909
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0483**	**0.4908**	**0.3835**	**1.6600e-003**	**0.0927**	**1.9600e-003**	**0.0946**	**0.0252**	**1.8500e-003**	**0.0270**		**172.1716**	**172.1716**	**6.7900e-003**		**172.3413**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2757	2.7812	3.6451	5.7000e-003		0.1420	0.1420		0.1306	0.1306	0.0000	551.9151	551.9151	0.1785		556.3776
Paving	0.0686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3443**	**2.7812**	**3.6451**	**5.7000e-003**		**0.1420**	**0.1420**		**0.1306**	**0.1306**	**0.0000**	**551.9151**	**551.9151**	**0.1785**		**556.3776**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0135	0.4618	0.1278	1.0500e-003	0.0270	1.4400e-003	0.0284	7.7500e-003	1.3700e-003	9.1300e-003		111.7770	111.7770	4.5600e-003		111.8909
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504

Total	**0.0483**	**0.4908**	**0.3835**	**1.6600e-003**	**0.0927**	**1.9600e-003**	**0.0946**	**0.0252**	**1.8500e-003**	**0.0270**		**172.1716**	**172.1716**	**6.7900e-003**		**172.3413**

3.4 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	0.4767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**0.7495**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0135	0.4618	0.1278	1.0500e-003	0.0270	1.4400e-003	0.0284	7.7500e-003	1.3700e-003	9.1300e-003		111.7770	111.7770	4.5600e-003		111.8909
Worker	0.0174	0.0145	0.1279	3.0000e-004	0.0329	2.6000e-004	0.0331	8.7200e-003	2.4000e-004	8.9500e-003		30.1973	30.1973	1.1100e-003		30.2252
Total	**0.0309**	**0.4763**	**0.2557**	**1.3500e-003**	**0.0598**	**1.7000e-003**	**0.0615**	**0.0165**	**1.6100e-003**	**0.0181**		**141.9743**	**141.9743**	**5.6700e-003**		**142.1161**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**0.7495**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0135	0.4618	0.1278	1.0500e-003	0.0270	1.4400e-003	0.0284	7.7500e-003	1.3700e-003	9.1300e-003		111.7770	111.7770	4.5600e-003		111.8909
Worker	0.0174	0.0145	0.1279	3.0000e-004	0.0329	2.6000e-004	0.0331	8.7200e-003	2.4000e-004	8.9500e-003		30.1973	30.1973	1.1100e-003		30.2252
Total	**0.0309**	**0.4763**	**0.2557**	**1.3500e-003**	**0.0598**	**1.7000e-003**	**0.0615**	**0.0165**	**1.6100e-003**	**0.0181**		**141.9743**	**141.9743**	**5.6700e-003**		**142.1161**

3.5 Testing - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3300	2.9283	3.6759	6.5800e-003		0.1469	0.1469		0.1469	0.1469		623.0346	623.0346	0.0296		623.7746
Total	**0.3300**	**2.9283**	**3.6759**	**6.5800e-003**		**0.1469**	**0.1469**		**0.1469**	**0.1469**		**623.0346**	**623.0346**	**0.0296**		**623.7746**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0261	0.0218	0.1918	4.6000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		45.2960	45.2960	1.6700e-003		45.3378
Total	**0.0261**	**0.0218**	**0.1918**	**4.6000e-004**	**0.0493**	**3.9000e-004**	**0.0497**	**0.0131**	**3.6000e-004**	**0.0134**		**45.2960**	**45.2960**	**1.6700e-003**		**45.3378**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3300	2.9283	3.6759	6.5800e-003		0.1469	0.1469		0.1469	0.1469	0.0000	623.0346	623.0346	0.0296		623.7746
Total	**0.3300**	**2.9283**	**3.6759**	**6.5800e-003**		**0.1469**	**0.1469**		**0.1469**	**0.1469**	**0.0000**	**623.0346**	**623.0346**	**0.0296**		**623.7746**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0261	0.0218	0.1918	4.6000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		45.2960	45.2960	1.6700e-003		45.3378
Total	**0.0261**	**0.0218**	**0.1918**	**4.6000e-004**	**0.0493**	**3.9000e-004**	**0.0497**	**0.0131**	**3.6000e-004**	**0.0134**		**45.2960**	**45.2960**	**1.6700e-003**		**45.3378**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058
Other Asphalt Surfaces	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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

Mitigated	0.0115	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Unmitigated	0.0115	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-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	lb/day										lb/day					
Architectural Coating	2.7400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.5000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Total	**0.0115**	**2.0000e-005**	**2.4500e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**		**5.6000e-003**

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	2.7400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.5000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Total	**0.0115**	**2.0000e-005**	**2.4500e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**		**5.6000e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Intertie Connection City-SVWD/SLVWD
Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	24.00	1000sqft	0.55	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2028
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intertie Connection City-SVWD/SLVWD

Land Use - Surrogate land use for intertie connection

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Grading - Estimated 1,267 CY of excavated material for export and 0.5 acre total graded

Trips and VMT - Construction vehicle information based on City input

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value

tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	2.00	131.00
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	PhaseEndDate	10/20/2027	11/10/2027
tblConstructionPhase	PhaseEndDate	10/6/2027	11/17/2027
tblConstructionPhase	PhaseEndDate	10/13/2027	11/10/2027
tblConstructionPhase	PhaseStartDate	10/14/2027	10/13/2027
tblConstructionPhase	PhaseStartDate	5/20/2027	11/11/2027
tblConstructionPhase	PhaseStartDate	10/7/2027	10/13/2027
tblGrading	AcresOfGrading	65.50	0.50
tblGrading	MaterialExported	0.00	1,267.00
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	4.00

tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	4.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	10.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00

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					
2027	0.0629	0.5721	0.7086	1.4900e-003	9.1700e-003	0.0205	0.0297	2.4500e-003	0.0189	0.0214	0.0000	132.0021	132.0021	0.0361	0.0000	132.9048
Maximum	**0.0629**	**0.5721**	**0.7086**	**1.4900e-003**	**9.1700e-003**	**0.0205**	**0.0297**	**2.4500e-003**	**0.0189**	**0.0214**	**0.0000**	**132.0021**	**132.0021**	**0.0361**	**0.0000**	**132.9048**

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					
2027	0.0629	0.5721	0.7086	1.4900e-003	9.0000e-003	0.0205	0.0295	2.4300e-003	0.0189	0.0214	0.0000	132.0020	132.0020	0.0361	0.0000	132.9047
Maximum	**0.0629**	**0.5721**	**0.7086**	**1.4900e-003**	**9.0000e-003**	**0.0205**	**0.0295**	**2.4300e-003**	**0.0189**	**0.0214**	**0.0000**	**132.0020**	**132.0020**	**0.0361**	**0.0000**	**132.9047**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**1.85**	**0.00**	**0.57**	**0.82**	**0.00**	**0.14**	**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	**5-2-2027**	**8-1-2027**	0.2862	0.2862
2	**8-2-2027**	**9-30-2027**	0.1867	0.1867
		Highest	0.2862	0.2862

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	2.0800e-003	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.3000e-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	0.0000	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	**2.0800e-003**	**0.0000**	**3.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**6.0000e-004**	**6.0000e-004**	**0.0000**	**0.0000**	**6.3000e-004**

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	2.0800e-003	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.3000e-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	0.0000	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	**2.0800e-003**	**0.0000**	**3.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**6.0000e-004**	**6.0000e-004**	**0.0000**	**0.0000**	**6.3000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Pipeline installation	Grading	5/2/2027	11/1/2027	5	131	
2	Paving	Paving	10/13/2027	11/10/2027	5	21	
3	Architectural Coating	Architectural Coating	10/13/2027	11/10/2027	5	21	
4	Testing	Building Construction	11/11/2027	11/17/2027	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.55

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,440

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Paving Equipment	1	4.00	132	0.36
Testing	Generator Sets	1	8.00	84	0.74
Pipeline installation	Concrete/Industrial Saws	0	0.00	81	0.73
Pipeline installation	Rubber Tired Dozers	0	0.00	247	0.40
Pipeline installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Testing	Cranes	0	0.00	231	0.29
Testing	Forklifts	0	0.00	89	0.20
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Pavers	1	4.00	130	0.42
Paving	Rollers	1	4.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Pipeline Installation	Graders	1	8.00	187	0.41
Pipeline Installation	Excavators	1	8.00	158	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
Architectural Coating	1	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline installation	4	8.00	4.00	158.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Pipeline installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.2000e-004	0.0000	3.2000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0486	0.4813	0.6100	1.1800e-003		0.0183	0.0183		0.0168	0.0168	0.0000	103.6705	103.6705	0.0335	0.0000	104.5087
Total	**0.0486**	**0.4813**	**0.6100**	**1.1800e-003**	**3.2000e-004**	**0.0183**	**0.0186**	**4.0000e-005**	**0.0168**	**0.0169**	**0.0000**	**103.6705**	**103.6705**	**0.0335**	**0.0000**	**104.5087**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0000e-004	0.0149	4.6700e-003	6.0000e-005	1.3300e-003	4.0000e-005	1.3600e-003	3.6000e-004	4.0000e-005	4.0000e-004	0.0000	5.7684	5.7684	2.4000e-004	0.0000	5.7743
Vendor	5.6000e-004	0.0227	5.8100e-003	7.0000e-005	1.7100e-003	4.0000e-005	1.7500e-003	5.0000e-004	4.0000e-005	5.3000e-004	0.0000	6.4731	6.4731	2.3000e-004	0.0000	6.4787
Worker	1.5200e-003	1.0500e-003	0.0106	3.0000e-005	4.1500e-003	3.0000e-005	4.1800e-003	1.1000e-003	3.0000e-005	1.1300e-003	0.0000	2.9723	2.9723	8.0000e-005	0.0000	2.9743
Total	**2.4800e-003**	**0.0387**	**0.0211**	**1.6000e-004**	**7.1900e-003**	**1.1000e-004**	**7.2900e-003**	**1.9600e-003**	**1.1000e-004**	**2.0600e-003**	**0.0000**	**15.2139**	**15.2139**	**5.5000e-004**	**0.0000**	**15.2273**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.4000e-004	0.0000	1.4000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0486	0.4813	0.6100	1.1800e-003		0.0183	0.0183		0.0168	0.0168	0.0000	103.6704	103.6704	0.0335	0.0000	104.5086
Total	**0.0486**	**0.4813**	**0.6100**	**1.1800e-003**	**1.4000e-004**	**0.0183**	**0.0184**	**2.0000e-005**	**0.0168**	**0.0169**	**0.0000**	**103.6704**	**103.6704**	**0.0335**	**0.0000**	**104.5086**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.0000e-004	0.0149	4.6700e-003	6.0000e-005	1.3300e-003	4.0000e-005	1.3600e-003	3.6000e-004	4.0000e-005	4.0000e-004	0.0000	5.7684	5.7684	2.4000e-004	0.0000	5.7743
Vendor	5.6000e-004	0.0227	5.8100e-003	7.0000e-005	1.7100e-003	4.0000e-005	1.7500e-003	5.0000e-004	4.0000e-005	5.3000e-004	0.0000	6.4731	6.4731	2.3000e-004	0.0000	6.4787
Worker	1.5200e-003	1.0500e-003	0.0106	3.0000e-005	4.1500e-003	3.0000e-005	4.1800e-003	1.1000e-003	3.0000e-005	1.1300e-003	0.0000	2.9723	2.9723	8.0000e-005	0.0000	2.9743
Total	**2.4800e-003**	**0.0387**	**0.0211**	**1.6000e-004**	**7.1900e-003**	**1.1000e-004**	**7.2900e-003**	**1.9600e-003**	**1.1000e-004**	**2.0600e-003**	**0.0000**	**15.2139**	**15.2139**	**5.5000e-004**	**0.0000**	**15.2273**

3.3 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4000e-003	0.0225	0.0383	6.0000e-005		1.1000e-003	1.1000e-003		1.0100e-003	1.0100e-003	0.0000	5.2551	5.2551	1.7000e-003	0.0000	5.2975
Paving	7.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.1200e-003**	**0.0225**	**0.0383**	**6.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.0100e-003**	**1.0100e-003**	**0.0000**	**5.2551**	**5.2551**	**1.7000e-003**	**0.0000**	**5.2975**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.0000e-005	3.6500e-003	9.3000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.0377	1.0377	4.0000e-005	0.0000	1.0386
Worker	2.4000e-004	1.7000e-004	1.7000e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4765	0.4765	1.0000e-005	0.0000	0.4768
Total	**3.3000e-004**	**3.8200e-003**	**2.6300e-003**	**2.0000e-005**	**9.3000e-004**	**1.0000e-005**	**9.5000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**1.5142**	**1.5142**	**5.0000e-005**	**0.0000**	**1.5154**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4000e-003	0.0225	0.0383	6.0000e-005		1.1000e-003	1.1000e-003		1.0100e-003	1.0100e-003	0.0000	5.2551	5.2551	1.7000e-003	0.0000	5.2975
Paving	7.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.1200e-003**	**0.0225**	**0.0383**	**6.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.0100e-003**	**1.0100e-003**	**0.0000**	**5.2551**	**5.2551**	**1.7000e-003**	**0.0000**	**5.2975**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.0000e-005	3.6500e-003	9.3000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.0377	1.0377	4.0000e-005	0.0000	1.0386
Worker	2.4000e-004	1.7000e-004	1.7000e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4765	0.4765	1.0000e-005	0.0000	0.4768
Total	**3.3000e-004**	**3.8200e-003**	**2.6300e-003**	**2.0000e-005**	**9.3000e-004**	**1.0000e-005**	**9.5000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**1.5142**	**1.5142**	**5.0000e-005**	**0.0000**	**1.5154**

3.4 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3900e-003	0.0160	0.0253	4.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	3.5746	3.5746	1.9000e-004	0.0000	3.5794
Total	**7.4000e-003**	**0.0160**	**0.0253**	**4.0000e-005**		**7.2000e-004**	**7.2000e-004**		**7.2000e-004**	**7.2000e-004**	**0.0000**	**3.5746**	**3.5746**	**1.9000e-004**	**0.0000**	**3.5794**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.0000e-005	3.6500e-003	9.3000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.0377	1.0377	4.0000e-005	0.0000	1.0386
Worker	1.2000e-004	8.0000e-005	8.5000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2382	0.2382	1.0000e-005	0.0000	0.2384

Total	**2.1000e-004**	**3.7300e-003**	**1.7800e-003**	**1.0000e-005**	**6.0000e-004**	**1.0000e-005**	**6.1000e-004**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**1.2759**	**1.2759**	**5.0000e-005**	**0.0000**	**1.2770**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3900e-003	0.0160	0.0253	4.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	3.5746	3.5746	1.9000e-004	0.0000	3.5794
Total	**7.4000e-003**	**0.0160**	**0.0253**	**4.0000e-005**		**7.2000e-004**	**7.2000e-004**		**7.2000e-004**	**7.2000e-004**	**0.0000**	**3.5746**	**3.5746**	**1.9000e-004**	**0.0000**	**3.5794**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.0000e-005	3.6500e-003	9.3000e-004	1.0000e-005	2.7000e-004	1.0000e-005	2.8000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.0377	1.0377	4.0000e-005	0.0000	1.0386
Worker	1.2000e-004	8.0000e-005	8.5000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2382	0.2382	1.0000e-005	0.0000	0.2384
Total	**2.1000e-004**	**3.7300e-003**	**1.7800e-003**	**1.0000e-005**	**6.0000e-004**	**1.0000e-005**	**6.1000e-004**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**1.2759**	**1.2759**	**5.0000e-005**	**0.0000**	**1.2770**

3.5 Testing - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.7000e-004	5.9900e-003	9.1500e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	1.4130	1.4130	5.0000e-005	0.0000	1.4143
Total	**6.7000e-004**	**5.9900e-003**	**9.1500e-003**	**2.0000e-005**		**2.4000e-004**	**2.4000e-004**		**2.4000e-004**	**2.4000e-004**	**0.0000**	**1.4130**	**1.4130**	**5.0000e-005**	**0.0000**	**1.4143**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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-005	3.0000e-005	3.0000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0851	0.0851	0.0000	0.0000	0.0851
Total	**4.0000e-005**	**3.0000e-005**	**3.0000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0851**	**0.0851**	**0.0000**	**0.0000**	**0.0851**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.7000e-004	5.9900e-003	9.1500e-003	2.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	1.4130	1.4130	5.0000e-005	0.0000	1.4143
Total	**6.7000e-004**	**5.9900e-003**	**9.1500e-003**	**2.0000e-005**		**2.4000e-004**	**2.4000e-004**		**2.4000e-004**	**2.4000e-004**	**0.0000**	**1.4130**	**1.4130**	**5.0000e-005**	**0.0000**	**1.4143**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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-005	3.0000e-005	3.0000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0851	0.0851	0.0000	0.0000	0.0851
Total	**4.0000e-005**	**3.0000e-005**	**3.0000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0851**	**0.0851**	**0.0000**	**0.0000**	**0.0851**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.596952	0.024911	0.205643	0.109204	0.014768	0.004214	0.021216	0.013069	0.001228	0.002009	0.005071	0.000963	0.000752
Other Asphalt Surfaces	0.596952	0.024911	0.205643	0.109204	0.014768	0.004214	0.021216	0.013069	0.001228	0.002009	0.005071	0.000963	0.000752

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

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	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0800e-003	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.3000e-004
Unmitigated	2.0800e-003	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.3000e-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	5.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.3000e-004
Total	**2.0800e-003**	**0.0000**	**3.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.0000e-004**	**6.0000e-004**	**0.0000**	**0.0000**	**6.3000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-004	6.0000e-004	0.0000	0.0000	6.3000e-004
Total	**2.0800e-003**	**0.0000**	**3.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.0000e-004**	**6.0000e-004**	**0.0000**	**0.0000**	**6.3000e-004**

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

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
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	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

Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Intertie Connection City-SVWD/SLVWD - Santa Cruz County, Summer

SCWR - Intertie Connection City-SVWD/SLVWD

Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	24.00	1000sqft	0.55	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2028
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intertie Connection City-SVWD/SLVWD

Land Use - Surrogate land use for intertie connection

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Grading - Estimated 1,267 CY of excavated material for export and 0.5 acre total graded

Trips and VMT - Construction vehicle information based on City input

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value

tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	2.00	131.00
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	PhaseEndDate	10/20/2027	11/10/2027
tblConstructionPhase	PhaseEndDate	10/6/2027	11/17/2027
tblConstructionPhase	PhaseEndDate	10/13/2027	11/10/2027
tblConstructionPhase	PhaseStartDate	10/14/2027	10/13/2027
tblConstructionPhase	PhaseStartDate	5/20/2027	11/11/2027
tblConstructionPhase	PhaseStartDate	10/7/2027	10/13/2027
tblGrading	AcresOfGrading	65.50	0.50
tblGrading	MaterialExported	0.00	1,267.00
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	4.00

tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	4.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	10.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00

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					
2027	1.8325	12.3144	16.1128	0.0330	0.2710	0.4560	0.7270	0.0731	0.4251	0.4982	0.0000	3,230.2466	3,230.2466	0.7816	0.0000	3,249.7854
Maximum	**1.8325**	**12.3144**	**16.1128**	**0.0330**	**0.2710**	**0.4560**	**0.7270**	**0.0731**	**0.4251**	**0.4982**	**0.0000**	**3,230.2466**	**3,230.2466**	**0.7816**	**0.0000**	**3,249.7854**

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					
2027	1.8325	12.3144	16.1128	0.0330	0.2683	0.4560	0.7243	0.0728	0.4251	0.4979	0.0000	3,230.2466	3,230.2466	0.7816	0.0000	3,249.7854
Maximum	**1.8325**	**12.3144**	**16.1128**	**0.0330**	**0.2683**	**0.4560**	**0.7243**	**0.0728**	**0.4251**	**0.4979**	**0.0000**	**3,230.2466**	**3,230.2466**	**0.7816**	**0.0000**	**3,249.7854**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.99**	**0.00**	**0.37**	**0.42**	**0.00**	**0.06**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0115	2.0000e-005	2.4400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.5900e-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
Total	**0.0115**	**2.0000e-005**	**2.4400e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**	**0.0000**	**5.5900e-003**

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	0.0115	2.0000e-005	2.4400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.5900e-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
Total	**0.0115**	**2.0000e-005**	**2.4400e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**	**0.0000**	**5.5900e-003**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Pipeline installation	Grading	5/2/2027	11/1/2027	5	131	
2	Paving	Paving	10/13/2027	11/10/2027	5	21	
3	Architectural Coating	Architectural Coating	10/13/2027	11/10/2027	5	21	
4	Testing	Building Construction	11/11/2027	11/17/2027	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.55

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,440

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Paving Equipment	1	4.00	132	0.36
Testing	Generator Sets	1	8.00	84	0.74
Pipeline installation	Concrete/Industrial Saws	0	0.00	81	0.73
Pipeline installation	Rubber Tired Dozers	0	0.00	247	0.40
Pipeline installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Testing	Cranes	0	0.00	231	0.29
Testing	Forklifts	0	0.00	89	0.20
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Pavers	1	4.00	130	0.42
Paving	Rollers	1	4.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Pipeline Installation	Graders	1	8.00	187	0.41
Pipeline Installation	Excavators	1	8.00	158	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
Architectural Coating	1	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline installation	4	8.00	4.00	158.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Pipeline installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.8900e-003	0.0000	4.8900e-003	5.6000e-004	0.0000	5.6000e-004			0.0000			0.0000

Off-Road	0.7425	7.3485	9.3128	0.0180		0.2793	0.2793		0.2570	0.2570		1,744.6892	1,744.6892	0.5643		1,758.7959
Total	**0.7425**	**7.3485**	**9.3128**	**0.0180**	**4.8900e-003**	**0.2793**	**0.2842**	**5.6000e-004**	**0.2570**	**0.2576**		**1,744.6892**	**1,744.6892**	**0.5643**		**1,758.7959**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.9900e-003	0.2239	0.0701	9.1000e-004	0.0209	5.8000e-004	0.0215	5.7100e-003	5.6000e-004	6.2700e-003		97.6525	97.6525	3.9000e-003		97.7501
Vendor	8.3900e-003	0.3447	0.0838	1.0400e-003	0.0270	5.6000e-004	0.0275	7.7600e-003	5.4000e-004	8.3000e-003		109.9372	109.9372	3.6900e-003		110.0294
Worker	0.0228	0.0140	0.1688	5.3000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		52.4572	52.4572	1.3700e-003		52.4914
Total	**0.0371**	**0.5827**	**0.3226**	**2.4800e-003**	**0.1136**	**1.5700e-003**	**0.1152**	**0.0309**	**1.5000e-003**	**0.0324**		**260.0469**	**260.0469**	**8.9600e-003**		**260.2709**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.2000e-003	0.0000	2.2000e-003	2.5000e-004	0.0000	2.5000e-004			0.0000			0.0000
Off-Road	0.7425	7.3485	9.3128	0.0180		0.2793	0.2793		0.2570	0.2570	0.0000	1,744.6892	1,744.6892	0.5643		1,758.7959
Total	**0.7425**	**7.3485**	**9.3128**	**0.0180**	**2.2000e-003**	**0.2793**	**0.2815**	**2.5000e-004**	**0.2570**	**0.2572**	**0.0000**	**1,744.6892**	**1,744.6892**	**0.5643**		**1,758.7959**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.9900e-003	0.2239	0.0701	9.1000e-004	0.0209	5.8000e-004	0.0215	5.7100e-003	5.6000e-004	6.2700e-003		97.6525	97.6525	3.9000e-003		97.7501
Vendor	8.3900e-003	0.3447	0.0838	1.0400e-003	0.0270	5.6000e-004	0.0275	7.7600e-003	5.4000e-004	8.3000e-003		109.9372	109.9372	3.6900e-003		110.0294
Worker	0.0228	0.0140	0.1688	5.3000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		52.4572	52.4572	1.3700e-003		52.4914
Total	**0.0371**	**0.5827**	**0.3226**	**2.4800e-003**	**0.1136**	**1.5700e-003**	**0.1152**	**0.0309**	**1.5000e-003**	**0.0324**		**260.0469**	**260.0469**	**8.9600e-003**		**260.2709**

3.3 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2288	2.1454	3.6445	5.7000e-003		0.1046	0.1046		0.0963	0.0963		551.6863	551.6863	0.1784		556.1470
Paving	0.0686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2974**	**2.1454**	**3.6445**	**5.7000e-003**		**0.1046**	**0.1046**		**0.0963**	**0.0963**		**551.6863**	**551.6863**	**0.1784**		**556.1470**

Unmitigated Construction Off-Site

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

Vendor	8.3900e-003	0.3447	0.0838	1.0400e-003	0.0270	5.6000e-004	0.0275	7.7600e-003	5.4000e-004	8.3000e-003		109.9372	109.9372	3.6900e-003		110.0294
Worker	0.0228	0.0140	0.1688	5.3000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		52.4572	52.4572	1.3700e-003		52.4914
Total	**0.0311**	**0.3588**	**0.2526**	**1.5700e-003**	**0.0927**	**9.9000e-004**	**0.0937**	**0.0252**	**9.4000e-004**	**0.0261**		**162.3944**	**162.3944**	**5.0600e-003**		**162.5208**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2288	2.1454	3.6445	5.7000e-003		0.1046	0.1046		0.0963	0.0963	0.0000	551.6863	551.6863	0.1784		556.1470
Paving	0.0686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2974**	**2.1454**	**3.6445**	**5.7000e-003**		**0.1046**	**0.1046**		**0.0963**	**0.0963**	**0.0000**	**551.6863**	**551.6863**	**0.1784**		**556.1470**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.3900e-003	0.3447	0.0838	1.0400e-003	0.0270	5.6000e-004	0.0275	7.7600e-003	5.4000e-004	8.3000e-003		109.9372	109.9372	3.6900e-003		110.0294
Worker	0.0228	0.0140	0.1688	5.3000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		52.4572	52.4572	1.3700e-003		52.4914
Total	**0.0311**	**0.3588**	**0.2526**	**1.5700e-003**	**0.0927**	**9.9000e-004**	**0.0937**	**0.0252**	**9.4000e-004**	**0.0261**		**162.3944**	**162.3944**	**5.0600e-003**		**162.5208**

3.4 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	**0.7046**	**1.5273**	**2.4122**	**3.9600e-003**		**0.0687**	**0.0687**		**0.0687**	**0.0687**		**375.2641**	**375.2641**	**0.0205**		**375.7758**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.3900e-003	0.3447	0.0838	1.0400e-003	0.0270	5.6000e-004	0.0275	7.7600e-003	5.4000e-004	8.3000e-003		109.9372	109.9372	3.6900e-003		110.0294
Worker	0.0114	7.0200e-003	0.0844	2.6000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		26.2286	26.2286	6.8000e-004		26.2457
Total	**0.0198**	**0.3517**	**0.1682**	**1.3000e-003**	**0.0598**	**7.8000e-004**	**0.0606**	**0.0165**	**7.4000e-004**	**0.0172**		**136.1658**	**136.1658**	**4.3700e-003**		**136.2751**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	**0.7046**	**1.5273**	**2.4122**	**3.9600e-003**		**0.0687**	**0.0687**		**0.0687**	**0.0687**	**0.0000**	**375.2641**	**375.2641**	**0.0205**		**375.7758**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.3900e-003	0.3447	0.0838	1.0400e-003	0.0270	5.6000e-004	0.0275	7.7600e-003	5.4000e-004	8.3000e-003		109.9372	109.9372	3.6900e-003		110.0294
Worker	0.0114	7.0200e-003	0.0844	2.6000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		26.2286	26.2286	6.8000e-004		26.2457
Total	**0.0198**	**0.3517**	**0.1682**	**1.3000e-003**	**0.0598**	**7.8000e-004**	**0.0606**	**0.0165**	**7.4000e-004**	**0.0172**		**136.1658**	**136.1658**	**4.3700e-003**		**136.2751**

3.5 Testing - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2664	2.3955	3.6595	6.5800e-003		0.0954	0.0954		0.0954	0.0954		623.0346	623.0346	0.0230		623.6101
Total	**0.2664**	**2.3955**	**3.6595**	**6.5800e-003**		**0.0954**	**0.0954**		**0.0954**	**0.0954**		**623.0346**	**623.0346**	**0.0230**		**623.6101**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0171	0.0105	0.1266	3.9000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134		39.3429	39.3429	1.0300e-003		39.3685
Total	**0.0171**	**0.0105**	**0.1266**	**3.9000e-004**	**0.0493**	**3.2000e-004**	**0.0496**	**0.0131**	**3.0000e-004**	**0.0134**		**39.3429**	**39.3429**	**1.0300e-003**		**39.3685**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2664	2.3955	3.6595	6.5800e-003		0.0954	0.0954		0.0954	0.0954	0.0000	623.0346	623.0346	0.0230		623.6101
Total	**0.2664**	**2.3955**	**3.6595**	**6.5800e-003**		**0.0954**	**0.0954**		**0.0954**	**0.0954**	**0.0000**	**623.0346**	**623.0346**	**0.0230**		**623.6101**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0171	0.0105	0.1266	3.9000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134		39.3429	39.3429	1.0300e-003		39.3685
Total	**0.0171**	**0.0105**	**0.1266**	**3.9000e-004**	**0.0493**	**3.2000e-004**	**0.0496**	**0.0131**	**3.0000e-004**	**0.0134**		**39.3429**	**39.3429**	**1.0300e-003**		**39.3685**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.596952	0.024911	0.205643	0.109204	0.014768	0.004214	0.021216	0.013069	0.001228	0.002009	0.005071	0.000963	0.000752
Other Asphalt Surfaces	0.596952	0.024911	0.205643	0.109204	0.014768	0.004214	0.021216	0.013069	0.001228	0.002009	0.005071	0.000963	0.000752

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0115	2.0000e-005	2.4400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.5900e-003
Unmitigated	0.0115	2.0000e-005	2.4400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.5900e-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	2.7400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.5000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.5900e-003
Total	**0.0115**	**2.0000e-005**	**2.4400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**		**5.5900e-003**

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	2.7400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.5000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.5900e-003
Total	**0.0115**	**2.0000e-005**	**2.4400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**		**5.5900e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Intertie Connection City-SVWD/SLVWD
Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	24.00	1000sqft	0.55	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2028
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intertie Connection City-SVWD/SLVWD

Land Use - Surrogate land use for intertie connection

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Grading - Estimated 1,267 CY of excavated material for export and 0.5 acre total graded

Trips and VMT - Construction vehicle information based on City input

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value

tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	2.00	131.00
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	PhaseEndDate	10/20/2027	11/10/2027
tblConstructionPhase	PhaseEndDate	10/6/2027	11/17/2027
tblConstructionPhase	PhaseEndDate	10/13/2027	11/10/2027
tblConstructionPhase	PhaseStartDate	10/14/2027	10/13/2027
tblConstructionPhase	PhaseStartDate	5/20/2027	11/11/2027
tblConstructionPhase	PhaseStartDate	10/7/2027	10/13/2027
tblGrading	AcresOfGrading	65.50	0.50
tblGrading	MaterialExported	0.00	1,267.00
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	7.00	4.00

tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	4.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	10.00	6.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00

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					
2027	1.8420	12.3290	16.1464	0.0329	0.2710	0.4561	0.7271	0.0731	0.4252	0.4983	0.0000	3,215.5457	3,215.5457	0.7823	0.0000	3,235.1014
Maximum	**1.8420**	**12.3290**	**16.1464**	**0.0329**	**0.2710**	**0.4561**	**0.7271**	**0.0731**	**0.4252**	**0.4983**	**0.0000**	**3,215.5457**	**3,215.5457**	**0.7823**	**0.0000**	**3,235.1014**

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					
2027	1.8420	12.3290	16.1464	0.0329	0.2683	0.4561	0.7244	0.0728	0.4252	0.4980	0.0000	3,215.5457	3,215.5457	0.7823	0.0000	3,235.1014
Maximum	**1.8420**	**12.3290**	**16.1464**	**0.0329**	**0.2683**	**0.4561**	**0.7244**	**0.0728**	**0.4252**	**0.4980**	**0.0000**	**3,215.5457**	**3,215.5457**	**0.7823**	**0.0000**	**3,235.1014**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.99**	**0.00**	**0.37**	**0.42**	**0.00**	**0.06**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0115	2.0000e-005	2.4400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.5900e-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
Total	**0.0115**	**2.0000e-005**	**2.4400e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**	**0.0000**	**5.5900e-003**

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	0.0115	2.0000e-005	2.4400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.5900e-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
Total	**0.0115**	**2.0000e-005**	**2.4400e-003**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**	**0.0000**	**5.5900e-003**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Pipeline installation	Grading	5/2/2027	11/1/2027	5	131	
2	Paving	Paving	10/13/2027	11/10/2027	5	21	
3	Architectural Coating	Architectural Coating	10/13/2027	11/10/2027	5	21	
4	Testing	Building Construction	11/11/2027	11/17/2027	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.55

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,440

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Paving Equipment	1	4.00	132	0.36
Testing	Generator Sets	1	8.00	84	0.74
Pipeline installation	Concrete/Industrial Saws	0	0.00	81	0.73
Pipeline installation	Rubber Tired Dozers	0	0.00	247	0.40
Pipeline installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Testing	Cranes	0	0.00	231	0.29
Testing	Forklifts	0	0.00	89	0.20
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Pavers	1	4.00	130	0.42
Paving	Rollers	1	4.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Pipeline Installation	Graders	1	8.00	187	0.41
Pipeline Installation	Excavators	1	8.00	158	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
Architectural Coating	1	4.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Pipeline installation	4	8.00	4.00	158.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Pipeline installation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					4.8900e-003	0.0000	4.8900e-003	5.6000e-004	0.0000	5.6000e-004			0.0000			0.0000

Off-Road	0.7425	7.3485	9.3128	0.0180		0.2793	0.2793		0.2570	0.2570		1,744.6892	1,744.6892	0.5643		1,758.7959
Total	**0.7425**	**7.3485**	**9.3128**	**0.0180**	**4.8900e-003**	**0.2793**	**0.2842**	**5.6000e-004**	**0.2570**	**0.2576**		**1,744.6892**	**1,744.6892**	**0.5643**		**1,758.7959**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.1600e-003	0.2270	0.0732	9.0000e-004	0.0209	6.0000e-004	0.0215	5.7100e-003	5.7000e-004	6.2900e-003		96.2846	96.2846	4.0200e-003		96.3851
Vendor	8.9200e-003	0.3457	0.0943	1.0100e-003	0.0270	5.9000e-004	0.0276	7.7600e-003	5.7000e-004	8.3300e-003		107.5574	107.5574	3.9300e-003		107.6555
Worker	0.0259	0.0175	0.1684	5.0000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		49.9798	49.9798	1.3100e-003		50.0124
Total	**0.0410**	**0.5902**	**0.3359**	**2.4100e-003**	**0.1136**	**1.6200e-003**	**0.1152**	**0.0309**	**1.5400e-003**	**0.0325**		**253.8217**	**253.8217**	**9.2600e-003**		**254.0530**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.2000e-003	0.0000	2.2000e-003	2.5000e-004	0.0000	2.5000e-004			0.0000			0.0000
Off-Road	0.7425	7.3485	9.3128	0.0180		0.2793	0.2793		0.2570	0.2570	0.0000	1,744.6892	1,744.6892	0.5643		1,758.7959
Total	**0.7425**	**7.3485**	**9.3128**	**0.0180**	**2.2000e-003**	**0.2793**	**0.2815**	**2.5000e-004**	**0.2570**	**0.2572**	**0.0000**	**1,744.6892**	**1,744.6892**	**0.5643**		**1,758.7959**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.1600e-003	0.2270	0.0732	9.0000e-004	0.0209	6.0000e-004	0.0215	5.7100e-003	5.7000e-004	6.2900e-003		96.2846	96.2846	4.0200e-003		96.3851
Vendor	8.9200e-003	0.3457	0.0943	1.0100e-003	0.0270	5.9000e-004	0.0276	7.7600e-003	5.7000e-004	8.3300e-003		107.5574	107.5574	3.9300e-003		107.6555
Worker	0.0259	0.0175	0.1684	5.0000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		49.9798	49.9798	1.3100e-003		50.0124
Total	**0.0410**	**0.5902**	**0.3359**	**2.4100e-003**	**0.1136**	**1.6200e-003**	**0.1152**	**0.0309**	**1.5400e-003**	**0.0325**		**253.8217**	**253.8217**	**9.2600e-003**		**254.0530**

3.3 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2288	2.1454	3.6445	5.7000e-003		0.1046	0.1046		0.0963	0.0963		551.6863	551.6863	0.1784		556.1470
Paving	0.0686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2974**	**2.1454**	**3.6445**	**5.7000e-003**		**0.1046**	**0.1046**		**0.0963**	**0.0963**		**551.6863**	**551.6863**	**0.1784**		**556.1470**

Unmitigated Construction Off-Site

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

Vendor	8.9200e-003	0.3457	0.0943	1.0100e-003	0.0270	5.9000e-004	0.0276	7.7600e-003	5.7000e-004	8.3300e-003		107.5574	107.5574	3.9300e-003		107.6555
Worker	0.0259	0.0175	0.1684	5.0000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		49.9798	49.9798	1.3100e-003		50.0124
Total	**0.0348**	**0.3632**	**0.2626**	**1.5100e-003**	**0.0927**	**1.0200e-003**	**0.0937**	**0.0252**	**9.7000e-004**	**0.0262**		**157.5372**	**157.5372**	**5.2400e-003**		**157.6680**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2288	2.1454	3.6445	5.7000e-003		0.1046	0.1046		0.0963	0.0963	0.0000	551.6863	551.6863	0.1784		556.1470
Paving	0.0686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2974**	**2.1454**	**3.6445**	**5.7000e-003**		**0.1046**	**0.1046**		**0.0963**	**0.0963**	**0.0000**	**551.6863**	**551.6863**	**0.1784**		**556.1470**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9200e-003	0.3457	0.0943	1.0100e-003	0.0270	5.9000e-004	0.0276	7.7600e-003	5.7000e-004	8.3300e-003		107.5574	107.5574	3.9300e-003		107.6555
Worker	0.0259	0.0175	0.1684	5.0000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		49.9798	49.9798	1.3100e-003		50.0124
Total	**0.0348**	**0.3632**	**0.2626**	**1.5100e-003**	**0.0927**	**1.0200e-003**	**0.0937**	**0.0252**	**9.7000e-004**	**0.0262**		**157.5372**	**157.5372**	**5.2400e-003**		**157.6680**

3.4 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	**0.7046**	**1.5273**	**2.4122**	**3.9600e-003**		**0.0687**	**0.0687**		**0.0687**	**0.0687**		**375.2641**	**375.2641**	**0.0205**		**375.7758**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9200e-003	0.3457	0.0943	1.0100e-003	0.0270	5.9000e-004	0.0276	7.7600e-003	5.7000e-004	8.3300e-003		107.5574	107.5574	3.9300e-003		107.6555
Worker	0.0129	8.7400e-003	0.0842	2.5000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		24.9899	24.9899	6.5000e-004		25.0062
Total	**0.0219**	**0.3544**	**0.1785**	**1.2600e-003**	**0.0598**	**8.1000e-004**	**0.0606**	**0.0165**	**7.7000e-004**	**0.0172**		**132.5473**	**132.5473**	**4.5800e-003**		**132.6617**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	**0.7046**	**1.5273**	**2.4122**	**3.9600e-003**		**0.0687**	**0.0687**		**0.0687**	**0.0687**	**0.0000**	**375.2641**	**375.2641**	**0.0205**		**375.7758**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9200e-003	0.3457	0.0943	1.0100e-003	0.0270	5.9000e-004	0.0276	7.7600e-003	5.7000e-004	8.3300e-003		107.5574	107.5574	3.9300e-003		107.6555
Worker	0.0129	8.7400e-003	0.0842	2.5000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		24.9899	24.9899	6.5000e-004		25.0062
Total	**0.0219**	**0.3544**	**0.1785**	**1.2600e-003**	**0.0598**	**8.1000e-004**	**0.0606**	**0.0165**	**7.7000e-004**	**0.0172**		**132.5473**	**132.5473**	**4.5800e-003**		**132.6617**

3.5 Testing - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2664	2.3955	3.6595	6.5800e-003		0.0954	0.0954		0.0954	0.0954		623.0346	623.0346	0.0230		623.6101
Total	**0.2664**	**2.3955**	**3.6595**	**6.5800e-003**		**0.0954**	**0.0954**		**0.0954**	**0.0954**		**623.0346**	**623.0346**	**0.0230**		**623.6101**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0194	0.0131	0.1263	3.8000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134		37.4848	37.4848	9.8000e-004		37.5093
Total	**0.0194**	**0.0131**	**0.1263**	**3.8000e-004**	**0.0493**	**3.2000e-004**	**0.0496**	**0.0131**	**3.0000e-004**	**0.0134**		**37.4848**	**37.4848**	**9.8000e-004**		**37.5093**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2664	2.3955	3.6595	6.5800e-003		0.0954	0.0954		0.0954	0.0954	0.0000	623.0346	623.0346	0.0230		623.6101
Total	**0.2664**	**2.3955**	**3.6595**	**6.5800e-003**		**0.0954**	**0.0954**		**0.0954**	**0.0954**	**0.0000**	**623.0346**	**623.0346**	**0.0230**		**623.6101**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0194	0.0131	0.1263	3.8000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134		37.4848	37.4848	9.8000e-004		37.5093
Total	**0.0194**	**0.0131**	**0.1263**	**3.8000e-004**	**0.0493**	**3.2000e-004**	**0.0496**	**0.0131**	**3.0000e-004**	**0.0134**		**37.4848**	**37.4848**	**9.8000e-004**		**37.5093**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.596952	0.024911	0.205643	0.109204	0.014768	0.004214	0.021216	0.013069	0.001228	0.002009	0.005071	0.000963	0.000752
Other Asphalt Surfaces	0.596952	0.024911	0.205643	0.109204	0.014768	0.004214	0.021216	0.013069	0.001228	0.002009	0.005071	0.000963	0.000752

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

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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0115	2.0000e-005	2.4400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.5900e-003
Unmitigated	0.0115	2.0000e-005	2.4400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.5900e-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	2.7400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.5000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.5900e-003
Total	**0.0115**	**2.0000e-005**	**2.4400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**		**5.5900e-003**

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	2.7400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.5000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.5900e-003
Total	**0.0115**	**2.0000e-005**	**2.4400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**		**5.5900e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Pump Station SCWD-SVWD

Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2028
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - New pump station for SCWD-SVWD intertie

Land Use - Pump station assumed to be 2 ksf

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Grading - Assuming 0.05 acres would be graded for pump station

Trips and VMT - Construction vehicle information based on City input

Architectural Coating - Default architectural coating EF

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	PhaseEndDate	5/17/2027	5/7/2027
tblConstructionPhase	PhaseEndDate	10/6/2027	5/28/2027
tblConstructionPhase	PhaseEndDate	10/13/2027	6/11/2027
tblConstructionPhase	PhaseEndDate	10/20/2027	6/4/2027
tblConstructionPhase	PhaseStartDate	5/15/2027	5/2/2027
tblConstructionPhase	PhaseStartDate	5/20/2027	5/9/2027
tblConstructionPhase	PhaseStartDate	10/7/2027	6/6/2027
tblConstructionPhase	PhaseStartDate	10/14/2027	5/30/2027
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.05
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	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	462,500.00	0.00

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					
2027	0.0316	0.1571	0.2224	3.9000e-004	0.0163	6.1800e-003	0.0225	8.6100e-003	6.0000e-003	0.0146	0.0000	33.6553	33.6553	4.1600e-003	0.0000	33.7592
Maximum	**0.0316**	**0.1571**	**0.2224**	**3.9000e-004**	**0.0163**	**6.1800e-003**	**0.0225**	**8.6100e-003**	**6.0000e-003**	**0.0146**	**0.0000**	**33.6553**	**33.6553**	**4.1600e-003**	**0.0000**	**33.7592**

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					
2027	0.0316	0.1571	0.2224	3.9000e-004	8.0100e-003	6.1800e-003	0.0142	4.0600e-003	6.0000e-003	0.0101	0.0000	33.6552	33.6552	4.1600e-003	0.0000	33.7592
Maximum	**0.0316**	**0.1571**	**0.2224**	**3.9000e-004**	**8.0100e-003**	**6.1800e-003**	**0.0142**	**4.0600e-003**	**6.0000e-003**	**0.0101**	**0.0000**	**33.6552**	**33.6552**	**4.1600e-003**	**0.0000**	**33.7592**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.89**	**0.00**	**36.91**	**52.85**	**0.00**	**31.21**	**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	5-2-2027	8-1-2027	0.1749	0.1749
		Highest	0.1749	0.1749

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	9.2000e-003	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	5.0000e-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	**9.2000e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

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	9.2000e-003	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	5.0000e-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	**9.2000e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/2/2027	5/7/2027	5	5	
2	Building Construction	Building Construction	5/9/2027	5/28/2027	5	15	
3	Architectural Coating	Architectural Coating	5/30/2027	6/4/2027	5	5	
4	Paving	Paving	6/6/2027	6/11/2027	5	5	
5	Testing	Building Construction	6/13/2027	6/25/2027	5	10	

Acres of Grading (Site Preparation Phase): 0.05

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,000; Non-Residential Outdoor: 1,000; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Testing	Cranes	0	0.00	231	0.29
Testing	Forklifts	0	0.00	89	0.20
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	0	0.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Welders	1	8.00	46	0.45
Testing	Generator Sets	1	8.00	84	0.74

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	1	4.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	4.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0151	0.0000	0.0151	8.2800e-003	0.0000	8.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9300e-003	0.0197	0.0130	3.0000e-005		8.5000e-004	8.5000e-004		7.8000e-004	7.8000e-004	0.0000	2.5385	2.5385	8.2000e-004	0.0000	2.5591
Total	**1.9300e-003**	**0.0197**	**0.0130**	**3.0000e-005**	**0.0151**	**8.5000e-004**	**0.0159**	**8.2800e-003**	**7.8000e-004**	**9.0600e-003**	**0.0000**	**2.5385**	**2.5385**	**8.2000e-004**	**0.0000**	**2.5591**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.3000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1235	0.1235	0.0000	0.0000	0.1236
Worker	6.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1135	0.1135	0.0000	0.0000	0.1135
Total	**7.0000e-005**	**4.7000e-004**	**5.2000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2370**	**0.2370**	**0.0000**	**0.0000**	**0.2372**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.7900e-003	0.0000	6.7900e-003	3.7300e-003	0.0000	3.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9300e-003	0.0197	0.0130	3.0000e-005		8.5000e-004	8.5000e-004		7.8000e-004	7.8000e-004	0.0000	2.5385	2.5385	8.2000e-004	0.0000	2.5591

Total	**1.9300e-003**	**0.0197**	**0.0130**	**3.0000e-005**	**6.7900e-003**	**8.5000e-004**	**7.6400e-003**	**3.7300e-003**	**7.8000e-004**	**4.5100e-003**	**0.0000**	**2.5385**	**2.5385**	**8.2000e-004**	**0.0000**	**2.5591**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.3000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1235	0.1235	0.0000	0.0000	0.1236
Worker	6.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1135	0.1135	0.0000	0.0000	0.1135
Total	**7.0000e-005**	**4.7000e-004**	**5.2000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2370**	**0.2370**	**0.0000**	**0.0000**	**0.2372**

3.3 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0130	0.1147	0.1746	2.9000e-004		4.4800e-003	4.4800e-003		4.3900e-003	4.3900e-003	0.0000	24.9291	24.9291	2.8100e-003	0.0000	24.9993
Total	**0.0130**	**0.1147**	**0.1746**	**2.9000e-004**		**4.4800e-003**	**4.4800e-003**		**4.3900e-003**	**4.3900e-003**	**0.0000**	**24.9291**	**24.9291**	**2.8100e-003**	**0.0000**	**24.9993**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0000e-005	1.3000e-003	3.3000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3706	0.3706	1.0000e-005	0.0000	0.3709
Worker	1.7000e-004	1.2000e-004	1.2200e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3403	0.3403	1.0000e-005	0.0000	0.3406
Total	**2.0000e-004**	**1.4200e-003**	**1.5500e-003**	**0.0000**	**5.7000e-004**	**0.0000**	**5.8000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.7109**	**0.7109**	**2.0000e-005**	**0.0000**	**0.7115**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0130	0.1147	0.1746	2.9000e-004		4.4800e-003	4.4800e-003		4.3900e-003	4.3900e-003	0.0000	24.9291	24.9291	2.8100e-003	0.0000	24.9993
Total	**0.0130**	**0.1147**	**0.1746**	**2.9000e-004**		**4.4800e-003**	**4.4800e-003**		**4.3900e-003**	**4.3900e-003**	**0.0000**	**24.9291**	**24.9291**	**2.8100e-003**	**0.0000**	**24.9993**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0000e-005	1.3000e-003	3.3000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3706	0.3706	1.0000e-005	0.0000	0.3709

Worker	1.7000e-004	1.2000e-004	1.2200e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3403	0.3403	1.0000e-005	0.0000	0.3406
Total	**2.0000e-004**	**1.4200e-003**	**1.5500e-003**	**0.0000**	**5.7000e-004**	**0.0000**	**5.8000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.7109**	**0.7109**	**2.0000e-005**	**0.0000**	**0.7115**

3.4 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7000e-004	3.8200e-003	6.0300e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8523
Total	**0.0145**	**3.8200e-003**	**6.0300e-003**	**1.0000e-005**		**1.7000e-004**	**1.7000e-004**		**1.7000e-004**	**1.7000e-004**	**0.0000**	**0.8511**	**0.8511**	**5.0000e-005**	**0.0000**	**0.8523**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.3000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1235	0.1235	0.0000	0.0000	0.1236
Worker	3.0000e-005	2.0000e-005	2.0000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0567	0.0567	0.0000	0.0000	0.0568
Total	**4.0000e-005**	**4.5000e-004**	**3.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1803**	**0.1803**	**0.0000**	**0.0000**	**0.1804**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7000e-004	3.8200e-003	6.0300e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	0.8511	0.8511	5.0000e-005	0.0000	0.8522
Total	**0.0145**	**3.8200e-003**	**6.0300e-003**	**1.0000e-005**		**1.7000e-004**	**1.7000e-004**		**1.7000e-004**	**1.7000e-004**	**0.0000**	**0.8511**	**0.8511**	**5.0000e-005**	**0.0000**	**0.8522**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.3000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1235	0.1235	0.0000	0.0000	0.1236
Worker	3.0000e-005	2.0000e-005	2.0000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0567	0.0567	0.0000	0.0000	0.0568
Total	**4.0000e-005**	**4.5000e-004**	**3.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1803**	**0.1803**	**0.0000**	**0.0000**	**0.1804**

3.5 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.3000e-004	3.9600e-003	7.2400e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.7000e-004	1.7000e-004	0.0000	1.0319	1.0319	3.3000e-004	0.0000	1.0403

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.3000e-004**	**3.9600e-003**	**7.2400e-003**	**1.0000e-005**		**1.9000e-004**	**1.9000e-004**		**1.7000e-004**	**1.7000e-004**	**0.0000**	**1.0319**	**1.0319**	**3.3000e-004**	**0.0000**	**1.0403**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.3000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1235	0.1235	0.0000	0.0000	0.1236
Worker	3.0000e-005	2.0000e-005	2.0000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0567	0.0567	0.0000	0.0000	0.0568
Total	**4.0000e-005**	**4.5000e-004**	**3.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1803**	**0.1803**	**0.0000**	**0.0000**	**0.1804**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.3000e-004	3.9600e-003	7.2400e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.7000e-004	1.7000e-004	0.0000	1.0319	1.0319	3.3000e-004	0.0000	1.0403
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.3000e-004**	**3.9600e-003**	**7.2400e-003**	**1.0000e-005**		**1.9000e-004**	**1.9000e-004**		**1.7000e-004**	**1.7000e-004**	**0.0000**	**1.0319**	**1.0319**	**3.3000e-004**	**0.0000**	**1.0403**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.3000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1235	0.1235	0.0000	0.0000	0.1236
Worker	3.0000e-005	2.0000e-005	2.0000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0567	0.0567	0.0000	0.0000	0.0568
Total	**4.0000e-005**	**4.5000e-004**	**3.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1803**	**0.1803**	**0.0000**	**0.0000**	**0.1804**

3.6 Testing - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3300e-003	0.0120	0.0183	3.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	2.8260	2.8260	1.0000e-004	0.0000	2.8287
Total	**1.3300e-003**	**0.0120**	**0.0183**	**3.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**2.8260**	**2.8260**	**1.0000e-004**	**0.0000**	**2.8287**

Unmitigated Construction Off-Site

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	6.1000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1702	0.1702	0.0000	0.0000	0.1703
Total	**9.0000e-005**	**6.0000e-005**	**6.1000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1702**	**0.1702**	**0.0000**	**0.0000**	**0.1703**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3300e-003	0.0120	0.0183	3.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	2.8260	2.8260	1.0000e-004	0.0000	2.8286
Total	**1.3300e-003**	**0.0120**	**0.0183**	**3.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**2.8260**	**2.8260**	**1.0000e-004**	**0.0000**	**2.8286**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	6.1000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1702	0.1702	0.0000	0.0000	0.1703
Total	**9.0000e-005**	**6.0000e-005**	**6.1000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1702**	**0.1702**	**0.0000**	**0.0000**	**0.1703**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.596952	0.024911	0.205643	0.109204	0.014768	0.004214	0.021216	0.013069	0.001228	0.002009	0.005071	0.000963	0.000752

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.2000e-003	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	5.0000e-005
Unmitigated	9.2000e-003	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	5.0000e-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	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.8100e-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	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	5.0000e-005
Total	**9.2000e-003**	**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**	**5.0000e-005**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.8100e-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	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	5.0000e-005
Total	**9.2000e-003**	**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**	**5.0000e-005**

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Pump Station SCWD-SVWD

Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2028
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - New pump station for SCWD-SVWD intertie

Land Use - Pump station assumed to be 2 ksf

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Grading - Assuming 0.05 acres would be graded for pump station

Trips and VMT - Construction vehicle information based on City input

Architectural Coating - Default architectural coating EF

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	PhaseEndDate	5/17/2027	5/7/2027
tblConstructionPhase	PhaseEndDate	10/6/2027	5/28/2027
tblConstructionPhase	PhaseEndDate	10/13/2027	6/11/2027
tblConstructionPhase	PhaseEndDate	10/20/2027	6/4/2027
tblConstructionPhase	PhaseStartDate	5/15/2027	5/2/2027
tblConstructionPhase	PhaseStartDate	5/20/2027	5/9/2027
tblConstructionPhase	PhaseStartDate	10/7/2027	6/6/2027
tblConstructionPhase	PhaseStartDate	10/14/2027	5/30/2027
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.05
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	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	462,500.00	0.00

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					
2027	5.8054	15.4845	23.4864	0.0401	6.1119	0.5983	6.4534	3.3327	0.5854	3.6469	0.0000	3,771.3763	3,771.3763	0.4158	0.0000	3,781.7714
Maximum	**5.8054**	**15.4845**	**23.4864**	**0.0401**	**6.1119**	**0.5983**	**6.4534**	**3.3327**	**0.5854**	**3.6469**	**0.0000**	**3,771.3763**	**3,771.3763**	**0.4158**	**0.0000**	**3,781.7714**

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					
2027	5.8054	15.4845	23.4864	0.0401	2.7939	0.5983	3.1355	1.5114	0.5854	1.8257	0.0000	3,771.3763	3,771.3763	0.4158	0.0000	3,781.7714
Maximum	**5.8054**	**15.4845**	**23.4864**	**0.0401**	**2.7939**	**0.5983**	**3.1355**	**1.5114**	**0.5854**	**1.8257**	**0.0000**	**3,771.3763**	**3,771.3763**	**0.4158**	**0.0000**	**3,781.7714**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**54.29**	**0.00**	**51.41**	**54.65**	**0.00**	**49.94**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/2/2027	5/7/2027	5	5	
2	Building Construction	Building Construction	5/9/2027	5/28/2027	5	15	
3	Architectural Coating	Architectural Coating	5/30/2027	6/4/2027	5	5	
4	Paving	Paving	6/6/2027	6/11/2027	5	5	
5	Testing	Building Construction	6/13/2027	6/25/2027	5	10	

Acres of Grading (Site Preparation Phase): 0.05

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,000; Non-Residential Outdoor: 1,000; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Testing	Cranes	0	0.00	231	0.29
Testing	Forklifts	0	0.00	89	0.20
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	0	0.00	80	0.38

Paving	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Welders	1	8.00	46	0.45
Testing	Generator Sets	1	8.00	84	0.74

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	1	4.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	4.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.0327	0.0000	6.0327	3.3114	0.0000	3.3114			0.0000			0.0000
Off-Road	0.7726	7.8883	5.1922	0.0116		0.3408	0.3408		0.3136	0.3136		1,119.2992	1,119.2992	0.3620		1,128.3493
Total	**0.7726**	**7.8883**	**5.1922**	**0.0116**	**6.0327**	**0.3408**	**6.3735**	**3.3114**	**0.3136**	**3.6249**		**1,119.2992**	**1,119.2992**	**0.3620**		**1,128.3493**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.7000e-004	4.1500e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0228	0.0140	0.1688	5.3000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		52.4572	52.4572	1.3700e-003		52.4914
Total	**0.0270**	**0.1864**	**0.2107**	**1.0500e-003**	**0.0792**	**7.1000e-004**	**0.0799**	**0.0213**	**6.7000e-004**	**0.0220**		**107.4258**	**107.4258**	**3.2100e-003**		**107.5061**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.7147	0.0000	2.7147	1.4901	0.0000	1.4901			0.0000			0.0000
Off-Road	0.7726	7.8883	5.1922	0.0116		0.3408	0.3408		0.3136	0.3136	0.0000	1,119.2992	1,119.2992	0.3620		1,128.3493
Total	**0.7726**	**7.8883**	**5.1922**	**0.0116**	**2.7147**	**0.3408**	**3.0555**	**1.4901**	**0.3136**	**1.8037**	**0.0000**	**1,119.2992**	**1,119.2992**	**0.3620**		**1,128.3493**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.7000e-004	4.1500e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0228	0.0140	0.1688	5.3000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		52.4572	52.4572	1.3700e-003		52.4914
Total	**0.0270**	**0.1864**	**0.2107**	**1.0500e-003**	**0.0792**	**7.1000e-004**	**0.0799**	**0.0213**	**6.7000e-004**	**0.0220**		**107.4258**	**107.4258**	**3.2100e-003**		**107.5061**

3.3 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7291	15.2981	23.2758	0.0390		0.5976	0.5976		0.5847	0.5847		3,663.9505	3,663.9505	0.4126		3,674.2654
Total	**1.7291**	**15.2981**	**23.2758**	**0.0390**		**0.5976**	**0.5976**		**0.5847**	**0.5847**		**3,663.9505**	**3,663.9505**	**0.4126**		**3,674.2654**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.7000e-004	4.1500e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0228	0.0140	0.1688	5.3000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		52.4572	52.4572	1.3700e-003		52.4914
Total	**0.0270**	**0.1864**	**0.2107**	**1.0500e-003**	**0.0792**	**7.1000e-004**	**0.0799**	**0.0213**	**6.7000e-004**	**0.0220**		**107.4258**	**107.4258**	**3.2100e-003**		**107.5061**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7291	15.2981	23.2758	0.0390		0.5976	0.5976		0.5847	0.5847	0.0000	3,663.9505	3,663.9505	0.4126		3,674.2654
Total	**1.7291**	**15.2981**	**23.2758**	**0.0390**		**0.5976**	**0.5976**		**0.5847**	**0.5847**	**0.0000**	**3,663.9505**	**3,663.9505**	**0.4126**		**3,674.2654**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.7000e-004	4.1500e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0228	0.0140	0.1688	5.3000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		52.4572	52.4572	1.3700e-003		52.4914
Total	**0.0270**	**0.1864**	**0.2107**	**1.0500e-003**	**0.0792**	**7.1000e-004**	**0.0799**	**0.0213**	**6.7000e-004**	**0.0220**		**107.4258**	**107.4258**	**3.2100e-003**		**107.5061**

3.4 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	**5.7898**	**1.5273**	**2.4122**	**3.9600e-003**		**0.0687**	**0.0687**		**0.0687**	**0.0687**		**375.2641**	**375.2641**	**0.0205**		**375.7758**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.7000e-004	4.1500e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0114	7.0200e-003	0.0844	2.6000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		26.2286	26.2286	6.8000e-004		26.2457
Total	**0.0156**	**0.1794**	**0.1263**	**7.8000e-004**	**0.0464**	**5.0000e-004**	**0.0468**	**0.0126**	**4.7000e-004**	**0.0131**		**81.1972**	**81.1972**	**2.5200e-003**		**81.2604**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	**5.7898**	**1.5273**	**2.4122**	**3.9600e-003**		**0.0687**	**0.0687**		**0.0687**	**0.0687**	**0.0000**	**375.2641**	**375.2641**	**0.0205**		**375.7758**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.7000e-004	4.1500e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0114	7.0200e-003	0.0844	2.6000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		26.2286	26.2286	6.8000e-004		26.2457
Total	**0.0156**	**0.1794**	**0.1263**	**7.8000e-004**	**0.0464**	**5.0000e-004**	**0.0468**	**0.0126**	**4.7000e-004**	**0.0131**		**81.1972**	**81.1972**	**2.5200e-003**		**81.2604**

3.5 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1738	1.5831	2.8958	4.7000e-003		0.0741	0.0741		0.0682	0.0682		454.9933	454.9933	0.1472		458.6721
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1738**	**1.5831**	**2.8958**	**4.7000e-003**		**0.0741**	**0.0741**		**0.0682**	**0.0682**		**454.9933**	**454.9933**	**0.1472**		**458.6721**

Unmitigated Construction Off-Site

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

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.7000e-004	4.1500e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0114	7.0200e-003	0.0844	2.6000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		26.2286	26.2286	6.8000e-004		26.2457
Total	**0.0156**	**0.1794**	**0.1263**	**7.8000e-004**	**0.0464**	**5.0000e-004**	**0.0468**	**0.0126**	**4.7000e-004**	**0.0131**		**81.1972**	**81.1972**	**2.5200e-003**		**81.2604**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1738	1.5831	2.8958	4.7000e-003		0.0741	0.0741		0.0682	0.0682	0.0000	454.9933	454.9933	0.1472		458.6721
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1738**	**1.5831**	**2.8958**	**4.7000e-003**		**0.0741**	**0.0741**		**0.0682**	**0.0682**	**0.0000**	**454.9933**	**454.9933**	**0.1472**		**458.6721**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.7000e-004	4.1500e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0114	7.0200e-003	0.0844	2.6000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		26.2286	26.2286	6.8000e-004		26.2457

Total	**0.0156**	**0.1794**	**0.1263**	**7.8000e-004**	**0.0464**	**5.0000e-004**	**0.0468**	**0.0126**	**4.7000e-004**	**0.0131**		**81.1972**	**81.1972**	**2.5200e-003**		**81.2604**

3.6 Testing - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2664	2.3955	3.6595	6.5800e-003		0.0954	0.0954		0.0954	0.0954		623.0346	623.0346	0.0230		623.6101
Total	**0.2664**	**2.3955**	**3.6595**	**6.5800e-003**		**0.0954**	**0.0954**		**0.0954**	**0.0954**		**623.0346**	**623.0346**	**0.0230**		**623.6101**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0171	0.0105	0.1266	3.9000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134		39.3429	39.3429	1.0300e-003		39.3685
Total	**0.0171**	**0.0105**	**0.1266**	**3.9000e-004**	**0.0493**	**3.2000e-004**	**0.0496**	**0.0131**	**3.0000e-004**	**0.0134**		**39.3429**	**39.3429**	**1.0300e-003**		**39.3685**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2664	2.3955	3.6595	6.5800e-003		0.0954	0.0954		0.0954	0.0954	0.0000	623.0346	623.0346	0.0230		623.6101
Total	**0.2664**	**2.3955**	**3.6595**	**6.5800e-003**		**0.0954**	**0.0954**		**0.0954**	**0.0954**	**0.0000**	**623.0346**	**623.0346**	**0.0230**		**623.6101**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0171	0.0105	0.1266	3.9000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134		39.3429	39.3429	1.0300e-003		39.3685
Total	**0.0171**	**0.0105**	**0.1266**	**3.9000e-004**	**0.0493**	**3.2000e-004**	**0.0496**	**0.0131**	**3.0000e-004**	**0.0134**		**39.3429**	**39.3429**	**1.0300e-003**		**39.3685**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.596952	0.024911	0.205643	0.109204	0.014768	0.004214	0.021216	0.013069	0.001228	0.002009	0.005071	0.000963	0.000752

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Unmitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Pump Station SCWD-SVWD

Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2028
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - New pump station for SCWD-SVWD intertie

Land Use - Pump station assumed to be 2 ksf

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Grading - Assuming 0.05 acres would be graded for pump station

Trips and VMT - Construction vehicle information based on City input

Architectural Coating - Default architectural coating EF

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	PhaseEndDate	5/17/2027	5/7/2027
tblConstructionPhase	PhaseEndDate	10/6/2027	5/28/2027
tblConstructionPhase	PhaseEndDate	10/13/2027	6/11/2027
tblConstructionPhase	PhaseEndDate	10/20/2027	6/4/2027
tblConstructionPhase	PhaseStartDate	5/15/2027	5/2/2027
tblConstructionPhase	PhaseStartDate	5/20/2027	5/9/2027
tblConstructionPhase	PhaseStartDate	10/7/2027	6/6/2027
tblConstructionPhase	PhaseStartDate	10/14/2027	5/30/2027
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.05
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	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	462,500.00	0.00

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					
2027	5.8072	15.4884	23.4913	0.0400	6.1119	0.5983	6.4534	3.3327	0.5854	3.6469	0.0000	3,767.7089	3,767.7089	0.4159	0.0000	3,778.1056
Maximum	**5.8072**	**15.4884**	**23.4913**	**0.0400**	**6.1119**	**0.5983**	**6.4534**	**3.3327**	**0.5854**	**3.6469**	**0.0000**	**3,767.7089**	**3,767.7089**	**0.4159**	**0.0000**	**3,778.1056**

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					
2027	5.8072	15.4884	23.4913	0.0400	2.7939	0.5983	3.1355	1.5114	0.5854	1.8257	0.0000	3,767.7089	3,767.7089	0.4159	0.0000	3,778.1056
Maximum	**5.8072**	**15.4884**	**23.4913**	**0.0400**	**2.7939**	**0.5983**	**3.1355**	**1.5114**	**0.5854**	**1.8257**	**0.0000**	**3,767.7089**	**3,767.7089**	**0.4159**	**0.0000**	**3,778.1056**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**54.29**	**0.00**	**51.41**	**54.65**	**0.00**	**49.94**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/2/2027	5/7/2027	5	5	
2	Building Construction	Building Construction	5/9/2027	5/28/2027	5	15	
3	Architectural Coating	Architectural Coating	5/30/2027	6/4/2027	5	5	
4	Paving	Paving	6/6/2027	6/11/2027	5	5	
5	Testing	Building Construction	6/13/2027	6/25/2027	5	10	

Acres of Grading (Site Preparation Phase): 0.05

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,000; Non-Residential Outdoor: 1,000; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Testing	Cranes	0	0.00	231	0.29
Testing	Forklifts	0	0.00	89	0.20
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	0	0.00	80	0.38

Paving	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Welders	1	8.00	46	0.45
Testing	Generator Sets	1	8.00	84	0.74

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	1	4.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	4.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.0327	0.0000	6.0327	3.3114	0.0000	3.3114			0.0000			0.0000
Off-Road	0.7726	7.8883	5.1922	0.0116		0.3408	0.3408		0.3136	0.3136		1,119.2992	1,119.2992	0.3620		1,128.3493
Total	**0.7726**	**7.8883**	**5.1922**	**0.0116**	**6.0327**	**0.3408**	**6.3735**	**3.3114**	**0.3136**	**3.6249**		**1,119.2992**	**1,119.2992**	**0.3620**		**1,128.3493**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0135	3.0000e-004	0.0138	3.8800e-003	2.8000e-004	4.1600e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0259	0.0175	0.1684	5.0000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		49.9798	49.9798	1.3100e-003		50.0124
Total	**0.0303**	**0.1903**	**0.2155**	**1.0100e-003**	**0.0792**	**7.3000e-004**	**0.0799**	**0.0213**	**6.8000e-004**	**0.0220**		**103.7585**	**103.7585**	**3.2700e-003**		**103.8402**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.7147	0.0000	2.7147	1.4901	0.0000	1.4901			0.0000			0.0000
Off-Road	0.7726	7.8883	5.1922	0.0116		0.3408	0.3408		0.3136	0.3136	0.0000	1,119.2992	1,119.2992	0.3620		1,128.3493
Total	**0.7726**	**7.8883**	**5.1922**	**0.0116**	**2.7147**	**0.3408**	**3.0555**	**1.4901**	**0.3136**	**1.8037**	**0.0000**	**1,119.2992**	**1,119.2992**	**0.3620**		**1,128.3493**

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0135	3.0000e-004	0.0138	3.8800e-003	2.8000e-004	4.1600e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0259	0.0175	0.1684	5.0000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		49.9798	49.9798	1.3100e-003		50.0124
Total	**0.0303**	**0.1903**	**0.2155**	**1.0100e-003**	**0.0792**	**7.3000e-004**	**0.0799**	**0.0213**	**6.8000e-004**	**0.0220**		**103.7585**	**103.7585**	**3.2700e-003**		**103.8402**

3.3 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7291	15.2981	23.2758	0.0390		0.5976	0.5976		0.5847	0.5847		3,663.9505	3,663.9505	0.4126		3,674.2654
Total	**1.7291**	**15.2981**	**23.2758**	**0.0390**		**0.5976**	**0.5976**		**0.5847**	**0.5847**		**3,663.9505**	**3,663.9505**	**0.4126**		**3,674.2654**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0135	3.0000e-004	0.0138	3.8800e-003	2.8000e-004	4.1600e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0259	0.0175	0.1684	5.0000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		49.9798	49.9798	1.3100e-003		50.0124
Total	**0.0303**	**0.1903**	**0.2155**	**1.0100e-003**	**0.0792**	**7.3000e-004**	**0.0799**	**0.0213**	**6.8000e-004**	**0.0220**		**103.7585**	**103.7585**	**3.2700e-003**		**103.8402**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7291	15.2981	23.2758	0.0390		0.5976	0.5976		0.5847	0.5847	0.0000	3,663.9505	3,663.9505	0.4126		3,674.2654
Total	**1.7291**	**15.2981**	**23.2758**	**0.0390**		**0.5976**	**0.5976**		**0.5847**	**0.5847**	**0.0000**	**3,663.9505**	**3,663.9505**	**0.4126**		**3,674.2654**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0135	3.0000e-004	0.0138	3.8800e-003	2.8000e-004	4.1600e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0259	0.0175	0.1684	5.0000e-004	0.0657	4.3000e-004	0.0662	0.0174	4.0000e-004	0.0178		49.9798	49.9798	1.3100e-003		50.0124
Total	**0.0303**	**0.1903**	**0.2155**	**1.0100e-003**	**0.0792**	**7.3000e-004**	**0.0799**	**0.0213**	**6.8000e-004**	**0.0220**		**103.7585**	**103.7585**	**3.2700e-003**		**103.8402**

3.4 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	**5.7898**	**1.5273**	**2.4122**	**3.9600e-003**		**0.0687**	**0.0687**		**0.0687**	**0.0687**		**375.2641**	**375.2641**	**0.0205**		**375.7758**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0135	3.0000e-004	0.0138	3.8800e-003	2.8000e-004	4.1600e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0129	8.7400e-003	0.0842	2.5000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		24.9899	24.9899	6.5000e-004		25.0062
Total	**0.0174**	**0.1816**	**0.1313**	**7.6000e-004**	**0.0464**	**5.2000e-004**	**0.0469**	**0.0126**	**4.8000e-004**	**0.0131**		**78.7686**	**78.7686**	**2.6100e-003**		**78.8340**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	**5.7898**	**1.5273**	**2.4122**	**3.9600e-003**		**0.0687**	**0.0687**		**0.0687**	**0.0687**	**0.0000**	**375.2641**	**375.2641**	**0.0205**		**375.7758**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0135	3.0000e-004	0.0138	3.8800e-003	2.8000e-004	4.1600e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0129	8.7400e-003	0.0842	2.5000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		24.9899	24.9899	6.5000e-004		25.0062
Total	**0.0174**	**0.1816**	**0.1313**	**7.6000e-004**	**0.0464**	**5.2000e-004**	**0.0469**	**0.0126**	**4.8000e-004**	**0.0131**		**78.7686**	**78.7686**	**2.6100e-003**		**78.8340**

3.5 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1738	1.5831	2.8958	4.7000e-003		0.0741	0.0741		0.0682	0.0682		454.9933	454.9933	0.1472		458.6721
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1738**	**1.5831**	**2.8958**	**4.7000e-003**		**0.0741**	**0.0741**		**0.0682**	**0.0682**		**454.9933**	**454.9933**	**0.1472**		**458.6721**

Unmitigated Construction Off-Site

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

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0135	3.0000e-004	0.0138	3.8800e-003	2.8000e-004	4.1600e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0129	8.7400e-003	0.0842	2.5000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		24.9899	24.9899	6.5000e-004		25.0062
Total	**0.0174**	**0.1816**	**0.1313**	**7.6000e-004**	**0.0464**	**5.2000e-004**	**0.0469**	**0.0126**	**4.8000e-004**	**0.0131**		**78.7686**	**78.7686**	**2.6100e-003**		**78.8340**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1738	1.5831	2.8958	4.7000e-003		0.0741	0.0741		0.0682	0.0682	0.0000	454.9933	454.9933	0.1472		458.6721
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.1738**	**1.5831**	**2.8958**	**4.7000e-003**		**0.0741**	**0.0741**		**0.0682**	**0.0682**	**0.0000**	**454.9933**	**454.9933**	**0.1472**		**458.6721**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0135	3.0000e-004	0.0138	3.8800e-003	2.8000e-004	4.1600e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0129	8.7400e-003	0.0842	2.5000e-004	0.0329	2.2000e-004	0.0331	8.7200e-003	2.0000e-004	8.9100e-003		24.9899	24.9899	6.5000e-004		25.0062

Total	**0.0174**	**0.1816**	**0.1313**	**7.6000e-004**	**0.0464**	**5.2000e-004**	**0.0469**	**0.0126**	**4.8000e-004**	**0.0131**		**78.7686**	**78.7686**	**2.6100e-003**		**78.8340**

3.6 Testing - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2664	2.3955	3.6595	6.5800e-003		0.0954	0.0954		0.0954	0.0954		623.0346	623.0346	0.0230		623.6101
Total	**0.2664**	**2.3955**	**3.6595**	**6.5800e-003**		**0.0954**	**0.0954**		**0.0954**	**0.0954**		**623.0346**	**623.0346**	**0.0230**		**623.6101**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0194	0.0131	0.1263	3.8000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134		37.4848	37.4848	9.8000e-004		37.5093
Total	**0.0194**	**0.0131**	**0.1263**	**3.8000e-004**	**0.0493**	**3.2000e-004**	**0.0496**	**0.0131**	**3.0000e-004**	**0.0134**		**37.4848**	**37.4848**	**9.8000e-004**		**37.5093**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2664	2.3955	3.6595	6.5800e-003		0.0954	0.0954		0.0954	0.0954	0.0000	623.0346	623.0346	0.0230		623.6101
Total	**0.2664**	**2.3955**	**3.6595**	**6.5800e-003**		**0.0954**	**0.0954**		**0.0954**	**0.0954**	**0.0000**	**623.0346**	**623.0346**	**0.0230**		**623.6101**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0194	0.0131	0.1263	3.8000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134		37.4848	37.4848	9.8000e-004		37.5093
Total	**0.0194**	**0.0131**	**0.1263**	**3.8000e-004**	**0.0493**	**3.2000e-004**	**0.0496**	**0.0131**	**3.0000e-004**	**0.0134**		**37.4848**	**37.4848**	**9.8000e-004**		**37.5093**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.596952	0.024911	0.205643	0.109204	0.014768	0.004214	0.021216	0.013069	0.001228	0.002009	0.005071	0.000963	0.000752

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Unmitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Pump Station SqCWD-CWD
Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - New pump station for SqCWD-CWD intertie

Land Use - Pump station assumed to be 2 ksf

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Grading - Assuming 0.05 acres would be graded for pump station

Trips and VMT - Construction vehicle information based on City input

Architectural Coating - Default architectural coating EF

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	PhaseEndDate	5/2/2022	5/6/2022
tblConstructionPhase	PhaseEndDate	9/19/2022	5/27/2022
tblConstructionPhase	PhaseEndDate	2/13/2023	6/10/2022
tblConstructionPhase	PhaseEndDate	2/20/2023	6/3/2022
tblConstructionPhase	PhaseEndDate	2/6/2023	6/24/2022
tblConstructionPhase	PhaseStartDate	5/3/2022	5/8/2022
tblConstructionPhase	PhaseStartDate	2/7/2023	6/5/2022
tblConstructionPhase	PhaseStartDate	2/14/2023	5/29/2022
tblConstructionPhase	PhaseStartDate	9/20/2022	6/12/2022
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.05
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	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	462,500.00	0.00

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					
2022	0.0359	0.1935	0.2268	3.9000e-004	0.0163	9.4900e-003	0.0258	8.6100e-003	9.2100e-003	0.0178	0.0000	33.8541	33.8541	4.4300e-003	0.0000	33.9649
Maximum	**0.0359**	**0.1935**	**0.2268**	**3.9000e-004**	**0.0163**	**9.4900e-003**	**0.0258**	**8.6100e-003**	**9.2100e-003**	**0.0178**	**0.0000**	**33.8541**	**33.8541**	**4.4300e-003**	**0.0000**	**33.9649**

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					
2022	0.0359	0.1935	0.2268	3.9000e-004	8.0100e-003	9.4900e-003	0.0175	4.0600e-003	9.2100e-003	0.0133	0.0000	33.8541	33.8541	4.4300e-003	0.0000	33.9649
Maximum	**0.0359**	**0.1935**	**0.2268**	**3.9000e-004**	**8.0100e-003**	**9.4900e-003**	**0.0175**	**4.0600e-003**	**9.2100e-003**	**0.0133**	**0.0000**	**33.8541**	**33.8541**	**4.4300e-003**	**0.0000**	**33.9649**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.89**	**0.00**	**32.17**	**52.85**	**0.00**	**25.53**	**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	5-1-2022	7-31-2022	0.2126	0.2126
		Highest	0.2126	0.2126

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	9.2000e-003	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	5.0000e-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	**9.2000e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

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	9.2000e-003	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	5.0000e-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	**9.2000e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2022	5/6/2022	5	5	
2	Building Construction	Building Construction	5/8/2022	5/27/2022	5	15	
3	Architectural Coating	Architectural Coating	5/29/2022	6/3/2022	5	5	
4	Paving	Paving	6/5/2022	6/10/2022	5	5	
5	Testing	Building Construction	6/12/2022	6/24/2022	5	10	

Acres of Grading (Site Preparation Phase): 0.05

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,000; Non-Residential Outdoor: 1,000; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Testing	Cranes	0	0.00	231	0.29
Testing	Forklifts	0	0.00	89	0.20
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	0	0.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Welders	1	8.00	46	0.45
Testing	Generator Sets	1	8.00	84	0.74

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	1	4.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	4.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0151	0.0000	0.0151	8.2800e-003	0.0000	8.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-003	0.0262	0.0146	3.0000e-005		1.2700e-003	1.2700e-003		1.1700e-003	1.1700e-003	0.0000	2.5589	2.5589	8.3000e-004	0.0000	2.5796
Total	**2.5000e-003**	**0.0262**	**0.0146**	**3.0000e-005**	**0.0151**	**1.2700e-003**	**0.0164**	**8.2800e-003**	**1.1700e-003**	**9.4500e-003**	**0.0000**	**2.5589**	**2.5589**	**8.3000e-004**	**0.0000**	**2.5796**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					6.7900e-003	0.0000	6.7900e-003	3.7300e-003	0.0000	3.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-003	0.0262	0.0146	3.0000e-005		1.2700e-003	1.2700e-003		1.1700e-003	1.1700e-003	0.0000	2.5589	2.5589	8.3000e-004	0.0000	2.5796

Total	**2.5000e-003**	**0.0262**	**0.0146**	**3.0000e-005**	**6.7900e-003**	**1.2700e-003**	**8.0600e-003**	**3.7300e-003**	**1.1700e-003**	**4.9000e-003**	**0.0000**	**2.5589**	**2.5589**	**8.3000e-004**	**0.0000**	**2.5796**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0160	0.1388	0.1757	2.9000e-004		6.9500e-003	6.9500e-003		6.7900e-003	6.7900e-003	0.0000	24.9244	24.9244	3.0200e-003	0.0000	24.9999
Total	**0.0160**	**0.1388**	**0.1757**	**2.9000e-004**		**6.9500e-003**	**6.9500e-003**		**6.7900e-003**	**6.7900e-003**	**0.0000**	**24.9244**	**24.9244**	**3.0200e-003**	**0.0000**	**24.9999**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0000e-005	1.7400e-003	4.5000e-004	0.0000	1.0000e-004	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3851	0.3851	1.0000e-005	0.0000	0.3854
Worker	2.4000e-004	2.0000e-004	1.8400e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4113	0.4113	2.0000e-005	0.0000	0.4116
Total	**2.9000e-004**	**1.9400e-003**	**2.2900e-003**	**0.0000**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**1.6000e-004**	**1.0000e-005**	**1.6000e-004**	**0.0000**	**0.7963**	**0.7963**	**3.0000e-005**	**0.0000**	**0.7971**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0160	0.1388	0.1757	2.9000e-004		6.9500e-003	6.9500e-003		6.7900e-003	6.7900e-003	0.0000	24.9244	24.9244	3.0200e-003	0.0000	24.9999
Total	**0.0160**	**0.1388**	**0.1757**	**2.9000e-004**		**6.9500e-003**	**6.9500e-003**		**6.7900e-003**	**6.7900e-003**	**0.0000**	**24.9244**	**24.9244**	**3.0200e-003**	**0.0000**	**24.9999**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.0000e-005	1.7400e-003	4.5000e-004	0.0000	1.0000e-004	1.0000e-005	1.0000e-004	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.3851	0.3851	1.0000e-005	0.0000	0.3854

Worker	2.4000e-004	2.0000e-004	1.8400e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4113	0.4113	2.0000e-005	0.0000	0.4116
Total	**2.9000e-004**	**1.9400e-003**	**2.2900e-003**	**0.0000**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**	**1.6000e-004**	**1.0000e-005**	**1.6000e-004**	**0.0000**	**0.7963**	**0.7963**	**3.0000e-005**	**0.0000**	**0.7971**

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	4.6900e-003	6.0500e-003	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	0.8511	0.8511	6.0000e-005	0.0000	0.8525
Total	**0.0146**	**4.6900e-003**	**6.0500e-003**	**1.0000e-005**		**2.7000e-004**	**2.7000e-004**		**2.7000e-004**	**2.7000e-004**	**0.0000**	**0.8511**	**0.8511**	**6.0000e-005**	**0.0000**	**0.8525**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0685	0.0685	0.0000	0.0000	0.0686
Total	**6.0000e-005**	**6.1000e-004**	**4.6000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1969**	**0.1969**	**0.0000**	**0.0000**	**0.1971**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	4.6900e-003	6.0500e-003	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	0.8511	0.8511	6.0000e-005	0.0000	0.8525
Total	**0.0146**	**4.6900e-003**	**6.0500e-003**	**1.0000e-005**		**2.7000e-004**	**2.7000e-004**		**2.7000e-004**	**2.7000e-004**	**0.0000**	**0.8511**	**0.8511**	**6.0000e-005**	**0.0000**	**0.8525**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0685	0.0685	0.0000	0.0000	0.0686
Total	**6.0000e-005**	**6.1000e-004**	**4.6000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1969**	**0.1969**	**0.0000**	**0.0000**	**0.1971**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.2000e-004	5.2500e-003	7.2100e-003	1.0000e-005		2.5000e-004	2.5000e-004		2.3000e-004	2.3000e-004	0.0000	1.0325	1.0325	3.3000e-004	0.0000	1.0409

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.2000e-004**	**5.2500e-003**	**7.2100e-003**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.3000e-004**	**2.3000e-004**	**0.0000**	**1.0325**	**1.0325**	**3.3000e-004**	**0.0000**	**1.0409**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0685	0.0685	0.0000	0.0000	0.0686
Total	**6.0000e-005**	**6.1000e-004**	**4.6000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1969**	**0.1969**	**0.0000**	**0.0000**	**0.1971**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.2000e-004	5.2500e-003	7.2100e-003	1.0000e-005		2.5000e-004	2.5000e-004		2.3000e-004	2.3000e-004	0.0000	1.0325	1.0325	3.3000e-004	0.0000	1.0409
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.2000e-004**	**5.2500e-003**	**7.2100e-003**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.3000e-004**	**2.3000e-004**	**0.0000**	**1.0325**	**1.0325**	**3.3000e-004**	**0.0000**	**1.0409**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0685	0.0685	0.0000	0.0000	0.0686
Total	**6.0000e-005**	**6.1000e-004**	**4.6000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1969**	**0.1969**	**0.0000**	**0.0000**	**0.1971**

3.6 Testing - 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	1.6500e-003	0.0146	0.0184	3.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	2.8260	2.8260	1.3000e-004	0.0000	2.8294
Total	**1.6500e-003**	**0.0146**	**0.0184**	**3.0000e-005**		**7.3000e-004**	**7.3000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**2.8260**	**2.8260**	**1.3000e-004**	**0.0000**	**2.8294**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2000e-004	1.0000e-004	9.2000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2056	0.2056	1.0000e-005	0.0000	0.2058
Total	**1.2000e-004**	**1.0000e-004**	**9.2000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.2056**	**0.2056**	**1.0000e-005**	**0.0000**	**0.2058**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.6500e-003	0.0146	0.0184	3.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	2.8260	2.8260	1.3000e-004	0.0000	2.8294
Total	**1.6500e-003**	**0.0146**	**0.0184**	**3.0000e-005**		**7.3000e-004**	**7.3000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**2.8260**	**2.8260**	**1.3000e-004**	**0.0000**	**2.8294**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2000e-004	1.0000e-004	9.2000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2056	0.2056	1.0000e-005	0.0000	0.2058
Total	**1.2000e-004**	**1.0000e-004**	**9.2000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.2056**	**0.2056**	**1.0000e-005**	**0.0000**	**0.2058**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.2000e-003	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	5.0000e-005
Unmitigated	9.2000e-003	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	5.0000e-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	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.8100e-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	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	5.0000e-005
Total	**9.2000e-003**	**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**	**5.0000e-005**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.8100e-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	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	5.0000e-005
Total	**9.2000e-003**	**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**	**5.0000e-005**

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Pump Station SqCWD-CWD
Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - New pump station for SqCWD-CWD intertie
Land Use - Pump station assumed to be 2 ksf
Construction Phase - Construction schedule based on City input
Off-road Equipment - Equipment based on City input
Grading - Assuming 0.05 acres would be graded for pump station
Trips and VMT - Construction vehicle information based on City input
Architectural Coating - Default architectural coating EF
Vehicle Trips - Modeling construction only
Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	PhaseEndDate	5/2/2022	5/6/2022
tblConstructionPhase	PhaseEndDate	9/19/2022	5/27/2022
tblConstructionPhase	PhaseEndDate	2/13/2023	6/10/2022
tblConstructionPhase	PhaseEndDate	2/20/2023	6/3/2022
tblConstructionPhase	PhaseEndDate	2/6/2023	6/24/2022
tblConstructionPhase	PhaseStartDate	5/3/2022	5/8/2022
tblConstructionPhase	PhaseStartDate	2/7/2023	6/5/2022
tblConstructionPhase	PhaseStartDate	2/14/2023	5/29/2022
tblConstructionPhase	PhaseStartDate	9/20/2022	6/12/2022
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.05
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	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	462,500.00	0.00

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					
2022	5.8566	18.7632	23.7412	0.0402	6.1119	0.9275	6.6206	3.3327	0.9066	3.8007	0.0000	3,783.7533	3,783.7533	0.4482	0.0000	3,794.9591
Maximum	**5.8566**	**18.7632**	**23.7412**	**0.0402**	**6.1119**	**0.9275**	**6.6206**	**3.3327**	**0.9066**	**3.8007**	**0.0000**	**3,783.7533**	**3,783.7533**	**0.4482**	**0.0000**	**3,794.9591**

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					
2022	5.8566	18.7632	23.7412	0.0402	2.7939	0.9275	3.3026	1.5114	0.9066	1.9795	0.0000	3,783.7533	3,783.7533	0.4482	0.0000	3,794.9591
Maximum	**5.8566**	**18.7632**	**23.7412**	**0.0402**	**2.7939**	**0.9275**	**3.3026**	**1.5114**	**0.9066**	**1.9795**	**0.0000**	**3,783.7533**	**3,783.7533**	**0.4482**	**0.0000**	**3,794.9591**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**54.29**	**0.00**	**50.12**	**54.65**	**0.00**	**47.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2022	5/6/2022	5	5	
2	Building Construction	Building Construction	5/8/2022	5/27/2022	5	15	
3	Architectural Coating	Architectural Coating	5/29/2022	6/3/2022	5	5	
4	Paving	Paving	6/5/2022	6/10/2022	5	5	
5	Testing	Building Construction	6/12/2022	6/24/2022	5	10	

Acres of Grading (Site Preparation Phase): 0.05

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,000; Non-Residential Outdoor: 1,000; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Testing	Cranes	0	0.00	231	0.29
Testing	Forklifts	0	0.00	89	0.20
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	0	0.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Architectural Coating	Air Compressors	1	8.00	78	0.48
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Welders	1	8.00	46	0.45
Testing	Generator Sets	1	8.00	84	0.74

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	1	4.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	4.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0327	0.0000	6.0327	3.3114	0.0000	3.3114			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669		1,128.2743	1,128.2743	0.3649		1,137.3970
Total	**1.0018**	**10.4693**	**5.8199**	**0.0116**	**6.0327**	**0.5075**	**6.5402**	**3.3114**	**0.4669**	**3.7783**		**1,128.2743**	**1,128.2743**	**0.3649**		**1,137.3970**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.7147	0.0000	2.7147	1.4901	0.0000	1.4901			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669	0.0000	1,128.2743	1,128.2743	0.3649		1,137.3970
Total	**1.0018**	**10.4693**	**5.8199**	**0.0116**	**2.7147**	**0.5075**	**3.2222**	**1.4901**	**0.4669**	**1.9570**	**0.0000**	**1,128.2743**	**1,128.2743**	**0.3649**		**1,137.3970**

Mitigated Construction Off-Site

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

Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1345	18.5106	23.4317	0.0390		0.9263	0.9263		0.9055	0.9055		3,663.2609	3,663.2609	0.4438		3,674.3558
Total	**2.1345**	**18.5106**	**23.4317**	**0.0390**		**0.9263**	**0.9263**		**0.9055**	**0.9055**		**3,663.2609**	**3,663.2609**	**0.4438**		**3,674.3558**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1345	18.5106	23.4317	0.0390		0.9263	0.9263		0.9055	0.9055	0.0000	3,663.2609	3,663.2609	0.4438		3,674.3558
Total	**2.1345**	**18.5106**	**23.4317**	**0.0390**		**0.9263**	**0.9263**		**0.9055**	**0.9055**	**0.0000**	**3,663.2609**	**3,663.2609**	**0.4438**		**3,674.3558**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

3.4 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	5.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**5.8347**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0155	0.0117	0.1266	3.2000e-004	0.0329	2.6000e-004	0.0331	8.7200e-003	2.4000e-004	8.9500e-003		31.6933	31.6933	1.1500e-003		31.7221
Total	**0.0218**	**0.2409**	**0.1829**	**8.6000e-004**	**0.0463**	**9.4000e-004**	**0.0473**	**0.0126**	**8.9000e-004**	**0.0135**		**88.7991**	**88.7991**	**3.2800e-003**		**88.8812**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**5.8347**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0155	0.0117	0.1266	3.2000e-004	0.0329	2.6000e-004	0.0331	8.7200e-003	2.4000e-004	8.9500e-003		31.6933	31.6933	1.1500e-003		31.7221
Total	**0.0218**	**0.2409**	**0.1829**	**8.6000e-004**	**0.0463**	**9.4000e-004**	**0.0473**	**0.0126**	**8.9000e-004**	**0.0135**		**88.7991**	**88.7991**	**3.2800e-003**		**88.8812**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2069	2.0989	2.8839	4.7000e-003		0.0997	0.0997		0.0917	0.0917		455.2579	455.2579	0.1472		458.9389
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2069**	**2.0989**	**2.8839**	**4.7000e-003**		**0.0997**	**0.0997**		**0.0917**	**0.0917**		**455.2579**	**455.2579**	**0.1472**		**458.9389**

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0155	0.0117	0.1266	3.2000e-004	0.0329	2.6000e-004	0.0331	8.7200e-003	2.4000e-004	8.9500e-003		31.6933	31.6933	1.1500e-003		31.7221
Total	**0.0218**	**0.2409**	**0.1829**	**8.6000e-004**	**0.0463**	**9.4000e-004**	**0.0473**	**0.0126**	**8.9000e-004**	**0.0135**		**88.7991**	**88.7991**	**3.2800e-003**		**88.8812**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2069	2.0989	2.8839	4.7000e-003		0.0997	0.0997		0.0917	0.0917	0.0000	455.2579	455.2579	0.1472		458.9389
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2069**	**2.0989**	**2.8839**	**4.7000e-003**		**0.0997**	**0.0997**		**0.0917**	**0.0917**	**0.0000**	**455.2579**	**455.2579**	**0.1472**		**458.9389**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0155	0.0117	0.1266	3.2000e-004	0.0329	2.6000e-004	0.0331	8.7200e-003	2.4000e-004	8.9500e-003		31.6933	31.6933	1.1500e-003		31.7221
Total	**0.0218**	**0.2409**	**0.1829**	**8.6000e-004**	**0.0463**	**9.4000e-004**	**0.0473**	**0.0126**	**8.9000e-004**	**0.0135**		**88.7991**	**88.7991**	**3.2800e-003**		**88.8812**

3.6 Testing - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3300	2.9283	3.6759	6.5800e-003		0.1469	0.1469		0.1469	0.1469		623.0346	623.0346	0.0296		623.7746
Total	**0.3300**	**2.9283**	**3.6759**	**6.5800e-003**		**0.1469**	**0.1469**		**0.1469**	**0.1469**		**623.0346**	**623.0346**	**0.0296**		**623.7746**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0232	0.0175	0.1899	4.8000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.5400	47.5400	1.7300e-003		47.5831
Total	**0.0232**	**0.0175**	**0.1899**	**4.8000e-004**	**0.0493**	**3.9000e-004**	**0.0497**	**0.0131**	**3.6000e-004**	**0.0134**		**47.5400**	**47.5400**	**1.7300e-003**		**47.5831**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3300	2.9283	3.6759	6.5800e-003		0.1469	0.1469		0.1469	0.1469	0.0000	623.0346	623.0346	0.0296		623.7746
Total	**0.3300**	**2.9283**	**3.6759**	**6.5800e-003**		**0.1469**	**0.1469**		**0.1469**	**0.1469**	**0.0000**	**623.0346**	**623.0346**	**0.0296**		**623.7746**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0232	0.0175	0.1899	4.8000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.5400	47.5400	1.7300e-003		47.5831
Total	**0.0232**	**0.0175**	**0.1899**	**4.8000e-004**	**0.0493**	**3.9000e-004**	**0.0497**	**0.0131**	**3.6000e-004**	**0.0134**		**47.5400**	**47.5400**	**1.7300e-003**		**47.5831**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Unmitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

Mitigated

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

SubCategory	lb/day										lb/day					
Architectural Coating	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Pump Station SqCWD-CWD
Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - New pump station for SqCWD-CWD intertie
Land Use - Pump station assumed to be 2 ksf
Construction Phase - Construction schedule based on City input
Off-road Equipment - Equipment based on City input
Grading - Assuming 0.05 acres would be graded for pump station
Trips and VMT - Construction vehicle information based on City input
Architectural Coating - Default architectural coating EF
Vehicle Trips - Modeling construction only
Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	PhaseEndDate	5/2/2022	5/6/2022
tblConstructionPhase	PhaseEndDate	9/19/2022	5/27/2022
tblConstructionPhase	PhaseEndDate	2/13/2023	6/10/2022
tblConstructionPhase	PhaseEndDate	2/20/2023	6/3/2022
tblConstructionPhase	PhaseEndDate	2/6/2023	6/24/2022
tblConstructionPhase	PhaseStartDate	5/3/2022	5/8/2022
tblConstructionPhase	PhaseStartDate	2/7/2023	6/5/2022
tblConstructionPhase	PhaseStartDate	2/14/2023	5/29/2022
tblConstructionPhase	PhaseStartDate	9/20/2022	6/12/2022
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.05
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	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	462,500.00	0.00

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					
2022	5.8589	18.7705	23.7513	0.0402	6.1119	0.9276	6.6206	3.3327	0.9067	3.8007	0.0000	3,779.5440	3,779.5440	0.4483	0.0000	3,790.7516
Maximum	**5.8589**	**18.7705**	**23.7513**	**0.0402**	**6.1119**	**0.9276**	**6.6206**	**3.3327**	**0.9067**	**3.8007**	**0.0000**	**3,779.5440**	**3,779.5440**	**0.4483**	**0.0000**	**3,790.7516**

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					
2022	5.8589	18.7705	23.7513	0.0402	2.7939	0.9276	3.3026	1.5114	0.9067	1.9795	0.0000	3,779.5440	3,779.5440	0.4483	0.0000	3,790.7516
Maximum	**5.8589**	**18.7705**	**23.7513**	**0.0402**	**2.7939**	**0.9276**	**3.3026**	**1.5114**	**0.9067**	**1.9795**	**0.0000**	**3,779.5440**	**3,779.5440**	**0.4483**	**0.0000**	**3,790.7516**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**54.29**	**0.00**	**50.12**	**54.65**	**0.00**	**47.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2022	5/6/2022	5	5	
2	Building Construction	Building Construction	5/8/2022	5/27/2022	5	15	
3	Architectural Coating	Architectural Coating	5/29/2022	6/3/2022	5	5	
4	Paving	Paving	6/5/2022	6/10/2022	5	5	
5	Testing	Building Construction	6/12/2022	6/24/2022	5	10	

Acres of Grading (Site Preparation Phase): 0.05

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,000; Non-Residential Outdoor: 1,000; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Testing	Cranes	0	0.00	231	0.29
Testing	Forklifts	0	0.00	89	0.20
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	0	0.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	0	0.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Architectural Coating	Air Compressors	1	8.00	78	0.48
Building Construction	Generator Sets	4	8.00	84	0.74
Building Construction	Welders	1	8.00	46	0.45
Testing	Generator Sets	1	8.00	84	0.74

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	1	4.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	4.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0327	0.0000	6.0327	3.3114	0.0000	3.3114			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669		1,128.2743	1,128.2743	0.3649		1,137.3970
Total	**1.0018**	**10.4693**	**5.8199**	**0.0116**	**6.0327**	**0.5075**	**6.5402**	**3.3114**	**0.4669**	**3.7783**		**1,128.2743**	**1,128.2743**	**0.3649**		**1,137.3970**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.7147	0.0000	2.7147	1.4901	0.0000	1.4901			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669	0.0000	1,128.2743	1,128.2743	0.3649		1,137.3970
Total	**1.0018**	**10.4693**	**5.8199**	**0.0116**	**2.7147**	**0.5075**	**3.2222**	**1.4901**	**0.4669**	**1.9570**	**0.0000**	**1,128.2743**	**1,128.2743**	**0.3649**		**1,137.3970**

Mitigated Construction Off-Site

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

Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1345	18.5106	23.4317	0.0390		0.9263	0.9263		0.9055	0.9055		3,663.2609	3,663.2609	0.4438		3,674.3558
Total	**2.1345**	**18.5106**	**23.4317**	**0.0390**		**0.9263**	**0.9263**		**0.9055**	**0.9055**		**3,663.2609**	**3,663.2609**	**0.4438**		**3,674.3558**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1345	18.5106	23.4317	0.0390		0.9263	0.9263		0.9055	0.9055	0.0000	3,663.2609	3,663.2609	0.4438		3,674.3558
Total	**2.1345**	**18.5106**	**23.4317**	**0.0390**		**0.9263**	**0.9263**		**0.9055**	**0.9055**	**0.0000**	**3,663.2609**	**3,663.2609**	**0.4438**		**3,674.3558**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

3.4 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	5.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**5.8347**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0174	0.0145	0.1279	3.0000e-004	0.0329	2.6000e-004	0.0331	8.7200e-003	2.4000e-004	8.9500e-003		30.1973	30.1973	1.1100e-003		30.2252
Total	**0.0241**	**0.2454**	**0.1918**	**8.3000e-004**	**0.0463**	**9.8000e-004**	**0.0473**	**0.0126**	**9.3000e-004**	**0.0135**		**86.0858**	**86.0858**	**3.3900e-003**		**86.1706**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.5620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**5.8347**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0174	0.0145	0.1279	3.0000e-004	0.0329	2.6000e-004	0.0331	8.7200e-003	2.4000e-004	8.9500e-003		30.1973	30.1973	1.1100e-003		30.2252
Total	**0.0241**	**0.2454**	**0.1918**	**8.3000e-004**	**0.0463**	**9.8000e-004**	**0.0473**	**0.0126**	**9.3000e-004**	**0.0135**		**86.0858**	**86.0858**	**3.3900e-003**		**86.1706**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2069	2.0989	2.8839	4.7000e-003		0.0997	0.0997		0.0917	0.0917		455.2579	455.2579	0.1472		458.9389
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2069**	**2.0989**	**2.8839**	**4.7000e-003**		**0.0997**	**0.0997**		**0.0917**	**0.0917**		**455.2579**	**455.2579**	**0.1472**		**458.9389**

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0174	0.0145	0.1279	3.0000e-004	0.0329	2.6000e-004	0.0331	8.7200e-003	2.4000e-004	8.9500e-003		30.1973	30.1973	1.1100e-003		30.2252
Total	**0.0241**	**0.2454**	**0.1918**	**8.3000e-004**	**0.0463**	**9.8000e-004**	**0.0473**	**0.0126**	**9.3000e-004**	**0.0135**		**86.0858**	**86.0858**	**3.3900e-003**		**86.1706**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2069	2.0989	2.8839	4.7000e-003		0.0997	0.0997		0.0917	0.0917	0.0000	455.2579	455.2579	0.1472		458.9389
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2069**	**2.0989**	**2.8839**	**4.7000e-003**		**0.0997**	**0.0997**		**0.0917**	**0.0917**	**0.0000**	**455.2579**	**455.2579**	**0.1472**		**458.9389**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0174	0.0145	0.1279	3.0000e-004	0.0329	2.6000e-004	0.0331	8.7200e-003	2.4000e-004	8.9500e-003		30.1973	30.1973	1.1100e-003		30.2252
Total	**0.0241**	**0.2454**	**0.1918**	**8.3000e-004**	**0.0463**	**9.8000e-004**	**0.0473**	**0.0126**	**9.3000e-004**	**0.0135**		**86.0858**	**86.0858**	**3.3900e-003**		**86.1706**

3.6 Testing - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3300	2.9283	3.6759	6.5800e-003		0.1469	0.1469		0.1469	0.1469		623.0346	623.0346	0.0296		623.7746
Total	**0.3300**	**2.9283**	**3.6759**	**6.5800e-003**		**0.1469**	**0.1469**		**0.1469**	**0.1469**		**623.0346**	**623.0346**	**0.0296**		**623.7746**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0261	0.0218	0.1918	4.6000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		45.2960	45.2960	1.6700e-003		45.3378
Total	**0.0261**	**0.0218**	**0.1918**	**4.6000e-004**	**0.0493**	**3.9000e-004**	**0.0497**	**0.0131**	**3.6000e-004**	**0.0134**		**45.2960**	**45.2960**	**1.6700e-003**		**45.3378**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3300	2.9283	3.6759	6.5800e-003		0.1469	0.1469		0.1469	0.1469	0.0000	623.0346	623.0346	0.0296		623.7746
Total	**0.3300**	**2.9283**	**3.6759**	**6.5800e-003**		**0.1469**	**0.1469**		**0.1469**	**0.1469**	**0.0000**	**623.0346**	**623.0346**	**0.0296**		**623.7746**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0261	0.0218	0.1918	4.6000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		45.2960	45.2960	1.6700e-003		45.3378
Total	**0.0261**	**0.0218**	**0.1918**	**4.6000e-004**	**0.0493**	**3.9000e-004**	**0.0497**	**0.0131**	**3.6000e-004**	**0.0134**		**45.2960**	**45.2960**	**1.6700e-003**		**45.3378**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Unmitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

Mitigated

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

SubCategory	lb/day										lb/day					
Architectural Coating	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Coast Pump Station Upgrades
Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2029
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Coast pump station upgrades

Land Use - General light industry assumed as pump station surrogate

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Demolition - Assume 800 square feet demo of old pump station/debris off haul

Architectural Coating - Default

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	PhaseEndDate	9/1/2028	4/21/2028
tblConstructionPhase	PhaseEndDate	1/19/2029	4/28/2028
tblConstructionPhase	PhaseEndDate	6/8/2029	5/12/2028
tblConstructionPhase	PhaseStartDate	9/2/2028	4/22/2028
tblConstructionPhase	PhaseStartDate	1/20/2029	4/29/2028
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

tblWater	IndoorWaterUseRate	462,500.00	0.00

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					
2028	0.0120	0.1040	0.1681	2.9000e-004	1.4200e-003	4.1900e-003	5.6100e-003	3.4000e-004	4.0700e-003	4.4100e-003	0.0000	24.9239	24.9239	3.3100e-003	0.0000	25.0066
Maximum	**0.0120**	**0.1040**	**0.1681**	**2.9000e-004**	**1.4200e-003**	**4.1900e-003**	**5.6100e-003**	**3.4000e-004**	**4.0700e-003**	**4.4100e-003**	**0.0000**	**24.9239**	**24.9239**	**3.3100e-003**	**0.0000**	**25.0066**

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					
2028	0.0120	0.1040	0.1681	2.9000e-004	1.2100e-003	4.1900e-003	5.4000e-003	3.1000e-004	4.0700e-003	4.3800e-003	0.0000	24.9239	24.9239	3.3100e-003	0.0000	25.0066
Maximum	**0.0120**	**0.1040**	**0.1681**	**2.9000e-004**	**1.2100e-003**	**4.1900e-003**	**5.4000e-003**	**3.1000e-004**	**4.0700e-003**	**4.3800e-003**	**0.0000**	**24.9239**	**24.9239**	**3.3100e-003**	**0.0000**	**25.0066**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**14.79**	**0.00**	**3.74**	**8.82**	**0.00**	**0.68**	**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	4-1-2028	6-30-2028	0.1160	0.1160
		Highest	0.1160	0.1160

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	9.2000e-003	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	5.0000e-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	**9.2000e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

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	9.2000e-003	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	5.0000e-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	**9.2000e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Demolition	Demolition	4/1/2028	4/14/2028	5	10	
2	Structural rehabilitation	Building Construction	4/15/2028	4/21/2028	5	5	
3	Building construction	Building Construction	4/22/2028	4/28/2028	5	5	
4	Testing	Building Construction	4/29/2028	5/12/2028	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: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building construction	Cranes	0	0.00	231	0.29
Testing	Cranes	0	0.00	231	0.29
Building construction	Forklifts	1	8.00	89	0.20

Testing	Forklifts	0	0.00	89	0.20
Building construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Structural rehabilitation	Cranes	0	0.00	231	0.29
Structural rehabilitation	Forklifts	0	0.00	89	0.20
Structural rehabilitation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Excavators	1	8.00	158	0.38
Demolition	Pumps	1	8.00	84	0.74
Structural rehabilitation	Air Compressors	1	8.00	78	0.48
Structural rehabilitation	Cement and Mortar Mixers	1	8.00	9	0.56
Structural rehabilitation	Generator Sets	2	8.00	84	0.74
Structural rehabilitation	Pumps	1	8.00	84	0.74
Building construction	Aerial Lifts	1	8.00	63	0.31
Building construction	Generator Sets	2	8.00	84	0.74
Building construction	Pavers	1	8.00	130	0.42
Building construction	Pumps	1	8.00	84	0.74
Building construction	Welders	1	8.00	46	0.45
Testing	Generator Sets	1	8.00	84	0.74

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	9	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Structural rehabilitation	5	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					3.9000e-004	0.0000	3.9000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5900e-003	0.0316	0.0572	9.0000e-005		1.3400e-003	1.3400e-003		1.2800e-003	1.2800e-003	0.0000	7.8357	7.8357	1.7300e-003	0.0000	7.8791
Total	**3.5900e-003**	**0.0316**	**0.0572**	**9.0000e-005**	**3.9000e-004**	**1.3400e-003**	**1.7300e-003**	**6.0000e-005**	**1.2800e-003**	**1.3400e-003**	**0.0000**	**7.8357**	**7.8357**	**1.7300e-003**	**0.0000**	**7.8791**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1453	0.1453	1.0000e-005	0.0000	0.1455
Vendor	2.0000e-005	8.5000e-004	2.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2461	0.2461	1.0000e-005	0.0000	0.2463
Worker	1.1000e-004	7.0000e-005	7.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2196	0.2196	1.0000e-005	0.0000	0.2197
Total	**1.4000e-004**	**1.2800e-003**	**1.0900e-003**	**0.0000**	**4.2000e-004**	**0.0000**	**4.2000e-004**	**1.1000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.6110**	**0.6110**	**3.0000e-005**	**0.0000**	**0.6115**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.8000e-004	0.0000	1.8000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5900e-003	0.0316	0.0572	9.0000e-005		1.3400e-003	1.3400e-003		1.2800e-003	1.2800e-003	0.0000	7.8357	7.8357	1.7300e-003	0.0000	7.8791
Total	**3.5900e-003**	**0.0316**	**0.0572**	**9.0000e-005**	**1.8000e-004**	**1.3400e-003**	**1.5200e-003**	**3.0000e-005**	**1.2800e-003**	**1.3100e-003**	**0.0000**	**7.8357**	**7.8357**	**1.7300e-003**	**0.0000**	**7.8791**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1453	0.1453	1.0000e-005	0.0000	0.1455
Vendor	2.0000e-005	8.5000e-004	2.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2461	0.2461	1.0000e-005	0.0000	0.2463
Worker	1.1000e-004	7.0000e-005	7.5000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2196	0.2196	1.0000e-005	0.0000	0.2197
Total	**1.4000e-004**	**1.2800e-003**	**1.0900e-003**	**0.0000**	**4.2000e-004**	**0.0000**	**4.2000e-004**	**1.1000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.6110**	**0.6110**	**3.0000e-005**	**0.0000**	**0.6115**

3.3 Structural rehabilitation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.7600e-003	0.0228	0.0344	6.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	5.2047	5.2047	2.2000e-004	0.0000	5.2102
Total	**2.7600e-003**	**0.0228**	**0.0344**	**6.0000e-005**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**5.2047**	**5.2047**	**2.2000e-004**	**0.0000**	**5.2102**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.2000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1230	0.1230	0.0000	0.0000	0.1231
Worker	5.0000e-005	4.0000e-005	3.8000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1098	0.1098	0.0000	0.0000	0.1099
Total	**6.0000e-005**	**4.6000e-004**	**4.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2328**	**0.2328**	**0.0000**	**0.0000**	**0.2330**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.7600e-003	0.0228	0.0344	6.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	5.2047	5.2047	2.2000e-004	0.0000	5.2102
Total	**2.7600e-003**	**0.0228**	**0.0344**	**6.0000e-005**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**5.2047**	**5.2047**	**2.2000e-004**	**0.0000**	**5.2102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.2000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1230	0.1230	0.0000	0.0000	0.1231
Worker	5.0000e-005	4.0000e-005	3.8000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1098	0.1098	0.0000	0.0000	0.1099
Total	**6.0000e-005**	**4.6000e-004**	**4.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2328**	**0.2328**	**0.0000**	**0.0000**	**0.2330**

3.4 Building construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.9900e-003	0.0354	0.0557	9.0000e-005		1.4200e-003	1.4200e-003		1.3700e-003	1.3700e-003	0.0000	7.8162	7.8162	1.2100e-003	0.0000	7.8464
Total	**3.9900e-003**	**0.0354**	**0.0557**	**9.0000e-005**		**1.4200e-003**	**1.4200e-003**		**1.3700e-003**	**1.3700e-003**	**0.0000**	**7.8162**	**7.8162**	**1.2100e-003**	**0.0000**	**7.8464**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.2000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1230	0.1230	0.0000	0.0000	0.1231
Worker	5.0000e-005	4.0000e-005	3.8000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1098	0.1098	0.0000	0.0000	0.1099
Total	**6.0000e-005**	**4.6000e-004**	**4.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2328**	**0.2328**	**0.0000**	**0.0000**	**0.2330**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.9900e-003	0.0354	0.0557	9.0000e-005		1.4200e-003	1.4200e-003		1.3700e-003	1.3700e-003	0.0000	7.8162	7.8162	1.2100e-003	0.0000	7.8464
Total	**3.9900e-003**	**0.0354**	**0.0557**	**9.0000e-005**		**1.4200e-003**	**1.4200e-003**		**1.3700e-003**	**1.3700e-003**	**0.0000**	**7.8162**	**7.8162**	**1.2100e-003**	**0.0000**	**7.8464**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.2000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1230	0.1230	0.0000	0.0000	0.1231
Worker	5.0000e-005	4.0000e-005	3.8000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1098	0.1098	0.0000	0.0000	0.1099
Total	**6.0000e-005**	**4.6000e-004**	**4.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2328**	**0.2328**	**0.0000**	**0.0000**	**0.2330**

3.5 Testing - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3300e-003	0.0120	0.0183	3.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	2.8260	2.8260	1.0000e-004	0.0000	2.8287
Total	**1.3300e-003**	**0.0120**	**0.0183**	**3.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**2.8260**	**2.8260**	**1.0000e-004**	**0.0000**	**2.8287**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1647	0.1647	0.0000	0.0000	0.1648
Total	**8.0000e-005**	**5.0000e-005**	**5.6000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1647**	**0.1647**	**0.0000**	**0.0000**	**0.1648**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3300e-003	0.0120	0.0183	3.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	2.8260	2.8260	1.0000e-004	0.0000	2.8286
Total	**1.3300e-003**	**0.0120**	**0.0183**	**3.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**2.8260**	**2.8260**	**1.0000e-004**	**0.0000**	**2.8286**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.0000e-005	5.0000e-005	5.6000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1647	0.1647	0.0000	0.0000	0.1648
Total	**8.0000e-005**	**5.0000e-005**	**5.6000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1647**	**0.1647**	**0.0000**	**0.0000**	**0.1648**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate	Unmitigated	Mitigated

Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.599608	0.024515	0.205520	0.108091	0.013987	0.004134	0.021227	0.013186	0.001229	0.001862	0.004978	0.000953	0.000710

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.2000e-003	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	5.0000e-005
Unmitigated	9.2000e-003	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	5.0000e-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	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.8100e-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	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	5.0000e-005
Total	**9.2000e-003**	**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**	**5.0000e-005**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.8100e-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	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	5.0000e-005
Total	**9.2000e-003**	**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**	**5.0000e-005**

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Coast Pump Station Upgrades
Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2029
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Coast pump station upgrades

Land Use - General light industry assumed as pump station surrogate

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Demolition - Assume 800 square feet demo of old pump station/debris off haul

Architectural Coating - Default

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	PhaseEndDate	9/1/2028	4/21/2028
tblConstructionPhase	PhaseEndDate	1/19/2029	4/28/2028
tblConstructionPhase	PhaseEndDate	6/8/2029	5/12/2028
tblConstructionPhase	PhaseStartDate	9/2/2028	4/22/2028
tblConstructionPhase	PhaseStartDate	1/20/2029	4/29/2028
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

tblWater	IndoorWaterUseRate	462,500.00	0.00

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					
2028	1.6231	14.3324	22.4636	0.0375	0.1640	0.5682	0.6474	0.0350	0.5494	0.5707	0.0000	3,551.8509	3,551.8509	0.5370	0.0000	3,565.2770
Maximum	**1.6231**	**14.3324**	**22.4636**	**0.0375**	**0.1640**	**0.5682**	**0.6474**	**0.0350**	**0.5494**	**0.5707**	**0.0000**	**3,551.8509**	**3,551.8509**	**0.5370**	**0.0000**	**3,565.2770**

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					
2028	1.6231	14.3324	22.4636	0.0375	0.1212	0.5682	0.6474	0.0285	0.5494	0.5707	0.0000	3,551.8509	3,551.8509	0.5370	0.0000	3,565.2770
Maximum	**1.6231**	**14.3324**	**22.4636**	**0.0375**	**0.1212**	**0.5682**	**0.6474**	**0.0285**	**0.5494**	**0.5707**	**0.0000**	**3,551.8509**	**3,551.8509**	**0.5370**	**0.0000**	**3,565.2770**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**26.10**	**0.00**	**0.00**	**18.52**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Demolition	Demolition	4/1/2028	4/14/2028	5	10	
2	Structural rehabilitation	Building Construction	4/15/2028	4/21/2028	5	5	
3	Building construction	Building Construction	4/22/2028	4/28/2028	5	5	
4	Testing	Building Construction	4/29/2028	5/12/2028	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: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building construction	Cranes	0	0.00	231	0.29
Testing	Cranes	0	0.00	231	0.29
Building construction	Forklifts	1	8.00	89	0.20
Testing	Forklifts	0	0.00	89	0.20
Building construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Structural rehabilitation	Cranes	0	0.00	231	0.29
Structural rehabilitation	Forklifts	0	0.00	89	0.20
Structural rehabilitation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Excavators	1	8.00	158	0.38
Demolition	Pumps	1	8.00	84	0.74
Structural rehabilitation	Air Compressors	1	8.00	78	0.48
Structural rehabilitation	Cement and Mortar Mixers	1	8.00	9	0.56

Structural rehabilitation	Generator Sets	2	8.00	84	0.74
Structural rehabilitation	Pumps	1	8.00	84	0.74
Building construction	Aerial Lifts	1	8.00	63	0.31
Building construction	Generator Sets	2	8.00	84	0.74
Building construction	Pavers	1	8.00	130	0.42
Building construction	Pumps	1	8.00	84	0.74
Building construction	Welders	1	8.00	46	0.45
Testing	Generator Sets	1	8.00	84	0.74

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	9	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Structural rehabilitation	5	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0778	0.0000	0.0778	0.0118	0.0000	0.0118			0.0000			0.0000
Off-Road	0.7175	6.3180	11.4341	0.0180		0.2690	0.2690		0.2555	0.2555		1,727.4842	1,727.4842	0.3824		1,737.0446
Total	**0.7175**	**6.3180**	**11.4341**	**0.0180**	**0.0778**	**0.2690**	**0.3468**	**0.0118**	**0.2555**	**0.2673**		**1,727.4842**	**1,727.4842**	**0.3824**		**1,737.0446**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.9500e-003	0.0713	0.0231	3.0000e-004	6.9300e-003	1.8000e-004	7.1100e-003	1.8900e-003	1.7000e-004	2.0700e-003		32.2271	32.2271	1.3000e-003		32.2595
Vendor	4.0600e-003	0.1683	0.0407	5.2000e-004	0.0135	2.6000e-004	0.0138	3.8800e-003	2.5000e-004	4.1300e-003		54.7462	54.7462	1.8200e-003		54.7918
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0273**	**0.2524**	**0.2208**	**1.3300e-003**	**0.0861**	**8.4000e-004**	**0.0870**	**0.0232**	**7.9000e-004**	**0.0240**		**137.7409**	**137.7409**	**4.3600e-003**		**137.8500**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0350	0.0000	0.0350	5.3000e-003	0.0000	5.3000e-003			0.0000			0.0000
Off-Road	0.7175	6.3180	11.4341	0.0180		0.2690	0.2690		0.2555	0.2555	0.0000	1,727.4842	1,727.4842	0.3824		1,737.0446
Total	**0.7175**	**6.3180**	**11.4341**	**0.0180**	**0.0350**	**0.2690**	**0.3040**	**5.3000e-003**	**0.2555**	**0.2608**	**0.0000**	**1,727.4842**	**1,727.4842**	**0.3824**		**1,737.0446**

Mitigated Construction Off-Site

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

Category	lb/day										lb/day					
Hauling	1.9500e-003	0.0713	0.0231	3.0000e-004	6.9300e-003	1.8000e-004	7.1100e-003	1.8900e-003	1.7000e-004	2.0700e-003		32.2271	32.2271	1.3000e-003		32.2595
Vendor	4.0600e-003	0.1683	0.0407	5.2000e-004	0.0135	2.6000e-004	0.0138	3.8800e-003	2.5000e-004	4.1300e-003		54.7462	54.7462	1.8200e-003		54.7918
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0273**	**0.2524**	**0.2208**	**1.3300e-003**	**0.0861**	**8.4000e-004**	**0.0870**	**0.0232**	**7.9000e-004**	**0.0240**		**137.7409**	**137.7409**	**4.3600e-003**		**137.8500**

3.3 Structural rehabilitation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1055	9.1126	13.7550	0.0244		0.3746	0.3746		0.3746	0.3746		2,294.8841	2,294.8841	0.0970		2,297.3085
Total	**1.1055**	**9.1126**	**13.7550**	**0.0244**		**0.3746**	**0.3746**		**0.3746**	**0.3746**		**2,294.8841**	**2,294.8841**	**0.0970**		**2,297.3085**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.0600e-003	0.1683	0.0407	5.2000e-004	0.0135	2.6000e-004	0.0138	3.8800e-003	2.5000e-004	4.1300e-003		54.7462	54.7462	1.8200e-003		54.7918
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986

Total	**0.0254**	**0.1811**	**0.1977**	**1.0300e-003**	**0.0792**	**6.6000e-004**	**0.0799**	**0.0213**	**6.2000e-004**	**0.0219**		**105.5138**	**105.5138**	**3.0600e-003**		**105.5904**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1055	9.1126	13.7550	0.0244		0.3746	0.3746		0.3746	0.3746	0.0000	2,294.8841	2,294.8841	0.0970		2,297.3085
Total	**1.1055**	**9.1126**	**13.7550**	**0.0244**		**0.3746**	**0.3746**		**0.3746**	**0.3746**	**0.0000**	**2,294.8841**	**2,294.8841**	**0.0970**		**2,297.3085**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.0600e-003	0.1683	0.0407	5.2000e-004	0.0135	2.6000e-004	0.0138	3.8800e-003	2.5000e-004	4.1300e-003		54.7462	54.7462	1.8200e-003		54.7918
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0254**	**0.1811**	**0.1977**	**1.0300e-003**	**0.0792**	**6.6000e-004**	**0.0799**	**0.0213**	**6.2000e-004**	**0.0219**		**105.5138**	**105.5138**	**3.0600e-003**		**105.5904**

3.4 Building construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5977	14.1513	22.2659	0.0364		0.5676	0.5676		0.5488	0.5488		3,446.3371	3,446.3371	0.5340		3,459.6866
Total	**1.5977**	**14.1513**	**22.2659**	**0.0364**		**0.5676**	**0.5676**		**0.5488**	**0.5488**		**3,446.3371**	**3,446.3371**	**0.5340**		**3,459.6866**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.0600e-003	0.1683	0.0407	5.2000e-004	0.0135	2.6000e-004	0.0138	3.8800e-003	2.5000e-004	4.1300e-003		54.7462	54.7462	1.8200e-003		54.7918
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0254**	**0.1811**	**0.1977**	**1.0300e-003**	**0.0792**	**6.6000e-004**	**0.0799**	**0.0213**	**6.2000e-004**	**0.0219**		**105.5138**	**105.5138**	**3.0600e-003**		**105.5904**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5977	14.1513	22.2659	0.0364		0.5676	0.5676		0.5488	0.5488	0.0000	3,446.3371	3,446.3371	0.5340		3,459.6866
Total	**1.5977**	**14.1513**	**22.2659**	**0.0364**		**0.5676**	**0.5676**		**0.5488**	**0.5488**	**0.0000**	**3,446.3371**	**3,446.3371**	**0.5340**		**3,459.6866**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.0600e-003	0.1683	0.0407	5.2000e-004	0.0135	2.6000e-004	0.0138	3.8800e-003	2.5000e-004	4.1300e-003		54.7462	54.7462	1.8200e-003		54.7918
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0254**	**0.1811**	**0.1977**	**1.0300e-003**	**0.0792**	**6.6000e-004**	**0.0799**	**0.0213**	**6.2000e-004**	**0.0219**		**105.5138**	**105.5138**	**3.0600e-003**		**105.5904**

3.5 Testing - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2664	2.3955	3.6595	6.5800e-003		0.0954	0.0954		0.0954	0.0954		623.0346	623.0346	0.0230		623.6101
Total	**0.2664**	**2.3955**	**3.6595**	**6.5800e-003**		**0.0954**	**0.0954**		**0.0954**	**0.0954**		**623.0346**	**623.0346**	**0.0230**		**623.6101**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0160	9.5700e-003	0.1177	3.8000e-004	0.0493	3.0000e-004	0.0496	0.0131	2.8000e-004	0.0134		38.0757	38.0757	9.3000e-004		38.0990
Total	**0.0160**	**9.5700e-003**	**0.1177**	**3.8000e-004**	**0.0493**	**3.0000e-004**	**0.0496**	**0.0131**	**2.8000e-004**	**0.0134**		**38.0757**	**38.0757**	**9.3000e-004**		**38.0990**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2664	2.3955	3.6595	6.5800e-003		0.0954	0.0954		0.0954	0.0954	0.0000	623.0346	623.0346	0.0230		623.6101
Total	**0.2664**	**2.3955**	**3.6595**	**6.5800e-003**		**0.0954**	**0.0954**		**0.0954**	**0.0954**	**0.0000**	**623.0346**	**623.0346**	**0.0230**		**623.6101**

Mitigated Construction Off-Site

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

Worker	0.0160	9.5700e-003	0.1177	3.8000e-004	0.0493	3.0000e-004	0.0496	0.0131	2.8000e-004	0.0134		38.0757	38.0757	9.3000e-004		38.0990
Total	**0.0160**	**9.5700e-003**	**0.1177**	**3.8000e-004**	**0.0493**	**3.0000e-004**	**0.0496**	**0.0131**	**2.8000e-004**	**0.0134**		**38.0757**	**38.0757**	**9.3000e-004**		**38.0990**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.599608	0.024515	0.205520	0.108091	0.013987	0.004134	0.021227	0.013186	0.001229	0.001862	0.004978	0.000953	0.000710

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Unmitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Coast Pump Station Upgrades

Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2029
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Coast pump station upgrades

Land Use - General light industry assumed as pump station surrogate

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Demolition - Assume 800 square feet demo of old pump station/debris off haul

Architectural Coating - Default

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	PhaseEndDate	9/1/2028	4/21/2028
tblConstructionPhase	PhaseEndDate	1/19/2029	4/28/2028
tblConstructionPhase	PhaseEndDate	6/8/2029	5/12/2028
tblConstructionPhase	PhaseStartDate	9/2/2028	4/22/2028
tblConstructionPhase	PhaseStartDate	1/20/2029	4/29/2028
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

tblWater	IndoorWaterUseRate	462,500.00	0.00

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					
2028	1.6263	14.3359	22.4680	0.0374	0.1640	0.5682	0.6474	0.0350	0.5494	0.5707	0.0000	3,548.2662	3,548.2662	0.5371	0.0000	3,561.6939
Maximum	**1.6263**	**14.3359**	**22.4680**	**0.0374**	**0.1640**	**0.5682**	**0.6474**	**0.0350**	**0.5494**	**0.5707**	**0.0000**	**3,548.2662**	**3,548.2662**	**0.5371**	**0.0000**	**3,561.6939**

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					
2028	1.6263	14.3359	22.4680	0.0374	0.1212	0.5682	0.6474	0.0285	0.5494	0.5707	0.0000	3,548.2662	3,548.2662	0.5371	0.0000	3,561.6939
Maximum	**1.6263**	**14.3359**	**22.4680**	**0.0374**	**0.1212**	**0.5682**	**0.6474**	**0.0285**	**0.5494**	**0.5707**	**0.0000**	**3,548.2662**	**3,548.2662**	**0.5371**	**0.0000**	**3,561.6939**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**26.10**	**0.00**	**0.00**	**18.52**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Demolition	Demolition	4/1/2028	4/14/2028	5	10	
2	Structural rehabilitation	Building Construction	4/15/2028	4/21/2028	5	5	
3	Building construction	Building Construction	4/22/2028	4/28/2028	5	5	
4	Testing	Building Construction	4/29/2028	5/12/2028	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: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building construction	Cranes	0	0.00	231	0.29
Testing	Cranes	0	0.00	231	0.29
Building construction	Forklifts	1	8.00	89	0.20
Testing	Forklifts	0	0.00	89	0.20
Building construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Structural rehabilitation	Cranes	0	0.00	231	0.29
Structural rehabilitation	Forklifts	0	0.00	89	0.20
Structural rehabilitation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Excavators	1	8.00	158	0.38
Demolition	Pumps	1	8.00	84	0.74
Structural rehabilitation	Air Compressors	1	8.00	78	0.48
Structural rehabilitation	Cement and Mortar Mixers	1	8.00	9	0.56

Structural rehabilitation	Generator Sets	2	8.00	84	0.74
Structural rehabilitation	Pumps	1	8.00	84	0.74
Building construction	Aerial Lifts	1	8.00	63	0.31
Building construction	Generator Sets	2	8.00	84	0.74
Building construction	Pavers	1	8.00	130	0.42
Building construction	Pumps	1	8.00	84	0.74
Building construction	Welders	1	8.00	46	0.45
Testing	Generator Sets	1	8.00	84	0.74

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	9	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Structural rehabilitation	5	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0778	0.0000	0.0778	0.0118	0.0000	0.0118			0.0000			0.0000
Off-Road	0.7175	6.3180	11.4341	0.0180		0.2690	0.2690		0.2555	0.2555		1,727.4842	1,727.4842	0.3824		1,737.0446
Total	**0.7175**	**6.3180**	**11.4341**	**0.0180**	**0.0778**	**0.2690**	**0.3468**	**0.0118**	**0.2555**	**0.2673**		**1,727.4842**	**1,727.4842**	**0.3824**		**1,737.0446**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.0100e-003	0.0723	0.0241	3.0000e-004	6.9300e-003	1.8000e-004	7.1200e-003	1.8900e-003	1.8000e-004	2.0700e-003		31.7756	31.7756	1.3300e-003		31.8089
Vendor	4.3100e-003	0.1688	0.0458	5.0000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.6000e-004	4.1400e-003		53.5613	53.5613	1.9400e-003		53.6099
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0306**	**0.2569**	**0.2262**	**1.2900e-003**	**0.0861**	**8.6000e-004**	**0.0870**	**0.0232**	**8.1000e-004**	**0.0240**		**133.7047**	**133.7047**	**4.4500e-003**		**133.8162**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0350	0.0000	0.0350	5.3000e-003	0.0000	5.3000e-003			0.0000			0.0000
Off-Road	0.7175	6.3180	11.4341	0.0180		0.2690	0.2690		0.2555	0.2555	0.0000	1,727.4842	1,727.4842	0.3824		1,737.0446
Total	**0.7175**	**6.3180**	**11.4341**	**0.0180**	**0.0350**	**0.2690**	**0.3040**	**5.3000e-003**	**0.2555**	**0.2608**	**0.0000**	**1,727.4842**	**1,727.4842**	**0.3824**		**1,737.0446**

Mitigated Construction Off-Site

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

Category	lb/day											lb/day					
Hauling	2.0100e-003	0.0723	0.0241	3.0000e-004	6.9300e-003	1.8000e-004	7.1200e-003	1.8900e-003	1.8000e-004	2.0700e-003		31.7756	31.7756	1.3300e-003		31.8089
Vendor	4.3100e-003	0.1688	0.0458	5.0000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.6000e-004	4.1400e-003		53.5613	53.5613	1.9400e-003		53.6099
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0306**	**0.2569**	**0.2262**	**1.2900e-003**	**0.0861**	**8.6000e-004**	**0.0870**	**0.0232**	**8.1000e-004**	**0.0240**		**133.7047**	**133.7047**	**4.4500e-003**		**133.8162**

3.3 Structural rehabilitation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1055	9.1126	13.7550	0.0244		0.3746	0.3746		0.3746	0.3746		2,294.8841	2,294.8841	0.0970		2,297.3085
Total	**1.1055**	**9.1126**	**13.7550**	**0.0244**		**0.3746**	**0.3746**		**0.3746**	**0.3746**		**2,294.8841**	**2,294.8841**	**0.0970**		**2,297.3085**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.3100e-003	0.1688	0.0458	5.0000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.6000e-004	4.1400e-003		53.5613	53.5613	1.9400e-003		53.6099
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974

Total	**0.0286**	**0.1846**	**0.2020**	**9.9000e-004**	**0.0792**	**6.8000e-004**	**0.0799**	**0.0213**	**6.3000e-004**	**0.0219**		**101.9292**	**101.9292**	**3.1200e-003**		**102.0073**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1055	9.1126	13.7550	0.0244		0.3746	0.3746		0.3746	0.3746	0.0000	2,294.8841	2,294.8841	0.0970		2,297.3085
Total	**1.1055**	**9.1126**	**13.7550**	**0.0244**		**0.3746**	**0.3746**		**0.3746**	**0.3746**	**0.0000**	**2,294.8841**	**2,294.8841**	**0.0970**		**2,297.3085**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.3100e-003	0.1688	0.0458	5.0000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.6000e-004	4.1400e-003		53.5613	53.5613	1.9400e-003		53.6099
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0286**	**0.1846**	**0.2020**	**9.9000e-004**	**0.0792**	**6.8000e-004**	**0.0799**	**0.0213**	**6.3000e-004**	**0.0219**		**101.9292**	**101.9292**	**3.1200e-003**		**102.0073**

3.4 Building construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5977	14.1513	22.2659	0.0364		0.5676	0.5676		0.5488	0.5488		3,446.3371	3,446.3371	0.5340		3,459.6866
Total	**1.5977**	**14.1513**	**22.2659**	**0.0364**		**0.5676**	**0.5676**		**0.5488**	**0.5488**		**3,446.3371**	**3,446.3371**	**0.5340**		**3,459.6866**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.3100e-003	0.1688	0.0458	5.0000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.6000e-004	4.1400e-003		53.5613	53.5613	1.9400e-003		53.6099
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0286**	**0.1846**	**0.2020**	**9.9000e-004**	**0.0792**	**6.8000e-004**	**0.0799**	**0.0213**	**6.3000e-004**	**0.0219**		**101.9292**	**101.9292**	**3.1200e-003**		**102.0073**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5977	14.1513	22.2659	0.0364		0.5676	0.5676		0.5488	0.5488	0.0000	3,446.3371	3,446.3371	0.5340		3,459.6866
Total	**1.5977**	**14.1513**	**22.2659**	**0.0364**		**0.5676**	**0.5676**		**0.5488**	**0.5488**	**0.0000**	**3,446.3371**	**3,446.3371**	**0.5340**		**3,459.6866**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.3100e-003	0.1688	0.0458	5.0000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.6000e-004	4.1400e-003		53.5613	53.5613	1.9400e-003		53.6099
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0286**	**0.1846**	**0.2020**	**9.9000e-004**	**0.0792**	**6.8000e-004**	**0.0799**	**0.0213**	**6.3000e-004**	**0.0219**		**101.9292**	**101.9292**	**3.1200e-003**		**102.0073**

3.5 Testing - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2664	2.3955	3.6595	6.5800e-003		0.0954	0.0954		0.0954	0.0954		623.0346	623.0346	0.0230		623.6101
Total	**0.2664**	**2.3955**	**3.6595**	**6.5800e-003**		**0.0954**	**0.0954**		**0.0954**	**0.0954**		**623.0346**	**623.0346**	**0.0230**		**623.6101**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0182	0.0119	0.1172	3.6000e-004	0.0493	3.0000e-004	0.0496	0.0131	2.8000e-004	0.0134		36.2759	36.2759	8.9000e-004		36.2981
Total	**0.0182**	**0.0119**	**0.1172**	**3.6000e-004**	**0.0493**	**3.0000e-004**	**0.0496**	**0.0131**	**2.8000e-004**	**0.0134**		**36.2759**	**36.2759**	**8.9000e-004**		**36.2981**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2664	2.3955	3.6595	6.5800e-003		0.0954	0.0954		0.0954	0.0954	0.0000	623.0346	623.0346	0.0230		623.6101
Total	**0.2664**	**2.3955**	**3.6595**	**6.5800e-003**		**0.0954**	**0.0954**		**0.0954**	**0.0954**	**0.0000**	**623.0346**	**623.0346**	**0.0230**		**623.6101**

Mitigated Construction Off-Site

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

Worker	0.0182	0.0119	0.1172	3.6000e-004	0.0493	3.0000e-004	0.0496	0.0131	2.8000e-004	0.0134		36.2759	36.2759	8.9000e-004		36.2981
Total	**0.0182**	**0.0119**	**0.1172**	**3.6000e-004**	**0.0493**	**3.0000e-004**	**0.0496**	**0.0131**	**2.8000e-004**	**0.0134**		**36.2759**	**36.2759**	**8.9000e-004**		**36.2981**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.599608	0.024515	0.205520	0.108091	0.013987	0.004134	0.021227	0.013186	0.001229	0.001862	0.004978	0.000953	0.000710

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Unmitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Pump Station Upgrades SCWD-SqCWD

Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Pump station upgrades for SCWD-SqCWD intertie

Land Use - General light industry assumed as pump station surrogate

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Demolition - Assume 800 square feet demo of old pump station/debris off haul

Architectural Coating - Default

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	PhaseEndDate	9/6/2022	4/22/2022
tblConstructionPhase	PhaseStartDate	4/20/2022	4/17/2022
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

tblWater	IndoorWaterUseRate	462,500.00	0.00

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					
2022	0.0140	0.1221	0.1606	2.7000e-004	1.3100e-003	6.1100e-003	7.4100e-003	3.1000e-004	5.9300e-003	6.2300e-003	0.0000	23.5737	23.5737	3.4200e-003	0.0000	23.6591
Maximum	**0.0140**	**0.1221**	**0.1606**	**2.7000e-004**	**1.3100e-003**	**6.1100e-003**	**7.4100e-003**	**3.1000e-004**	**5.9300e-003**	**6.2300e-003**	**0.0000**	**23.5737**	**23.5737**	**3.4200e-003**	**0.0000**	**23.6591**

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					
2022	0.0140	0.1221	0.1606	2.7000e-004	1.0900e-003	6.1100e-003	7.2000e-003	2.7000e-004	5.9300e-003	6.2000e-003	0.0000	23.5737	23.5737	3.4200e-003	0.0000	23.6591
Maximum	**0.0140**	**0.1221**	**0.1606**	**2.7000e-004**	**1.0900e-003**	**6.1100e-003**	**7.2000e-003**	**2.7000e-004**	**5.9300e-003**	**6.2000e-003**	**0.0000**	**23.5737**	**23.5737**	**3.4200e-003**	**0.0000**	**23.6591**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**16.79**	**0.00**	**2.83**	**12.90**	**0.00**	**0.48**	**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	4-1-2022	6-30-2022	0.1233	0.1233
		Highest	0.1233	0.1233

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	9.2000e-003	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	5.0000e-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	**9.2000e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

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	9.2000e-003	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	5.0000e-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	**9.2000e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Demolition	Demolition	4/1/2022	4/14/2022	5	10	
2	Structural rehabilitation	Building Construction	4/17/2022	4/22/2022	5	5	
3	Building construction	Building Construction	4/24/2022	4/29/2022	5	5	
4	Testing	Building Construction	5/1/2022	5/6/2022	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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building construction	Cranes	0	0.00	231	0.29
Testing	Cranes	0	0.00	231	0.29
Building construction	Forklifts	1	8.00	89	0.20

Testing	Forklifts	0	0.00	89	0.20
Building construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Structural rehabilitation	Cranes	0	0.00	231	0.29
Structural rehabilitation	Forklifts	0	0.00	89	0.20
Structural rehabilitation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Excavators	1	8.00	158	0.38
Demolition	Pumps	1	8.00	84	0.74
Structural rehabilitation	Air Compressors	1	8.00	78	0.48
Structural rehabilitation	Cement and Mortar Mixers	1	8.00	9	0.56
Structural rehabilitation	Generator Sets	2	8.00	84	0.74
Structural rehabilitation	Pumps	1	8.00	84	0.74
Building construction	Aerial Lifts	1	8.00	63	0.31
Building construction	Generator Sets	2	8.00	84	0.74
Building construction	Pavers	1	8.00	130	0.42
Building construction	Pumps	1	8.00	84	0.74
Building construction	Welders	1	8.00	46	0.45
Testing	Generator Sets	1	8.00	84	0.74

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	9	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Structural rehabilitation	5	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9000e-004	0.0000	3.9000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4200e-003	0.0405	0.0574	9.0000e-005		2.1100e-003	2.1100e-003		2.0000e-003	2.0000e-003	0.0000	7.8382	7.8382	1.7700e-003	0.0000	7.8823
Total	**4.4200e-003**	**0.0405**	**0.0574**	**9.0000e-005**	**3.9000e-004**	**2.1100e-003**	**2.5000e-003**	**6.0000e-005**	**2.0000e-003**	**2.0600e-003**	**0.0000**	**7.8382**	**7.8382**	**1.7700e-003**	**0.0000**	**7.8823**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	5.9000e-004	1.4000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1536	0.1536	1.0000e-005	0.0000	0.1537
Vendor	3.0000e-005	1.1600e-003	3.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2567	0.2567	1.0000e-005	0.0000	0.2570
Worker	1.6000e-004	1.3000e-004	1.2300e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2742	0.2742	1.0000e-005	0.0000	0.2744
Total	**2.0000e-004**	**1.8800e-003**	**1.6700e-003**	**0.0000**	**4.2000e-004**	**0.0000**	**4.3000e-004**	**1.1000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.6845**	**0.6845**	**3.0000e-005**	**0.0000**	**0.6851**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.8000e-004	0.0000	1.8000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4200e-003	0.0405	0.0574	9.0000e-005		2.1100e-003	2.1100e-003		2.0000e-003	2.0000e-003	0.0000	7.8382	7.8382	1.7700e-003	0.0000	7.8823
Total	**4.4200e-003**	**0.0405**	**0.0574**	**9.0000e-005**	**1.8000e-004**	**2.1100e-003**	**2.2900e-003**	**3.0000e-005**	**2.0000e-003**	**2.0300e-003**	**0.0000**	**7.8382**	**7.8382**	**1.7700e-003**	**0.0000**	**7.8823**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	5.9000e-004	1.4000e-004	0.0000	3.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1536	0.1536	1.0000e-005	0.0000	0.1537
Vendor	3.0000e-005	1.1600e-003	3.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2567	0.2567	1.0000e-005	0.0000	0.2570
Worker	1.6000e-004	1.3000e-004	1.2300e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2742	0.2742	1.0000e-005	0.0000	0.2744
Total	**2.0000e-004**	**1.8800e-003**	**1.6700e-003**	**0.0000**	**4.2000e-004**	**0.0000**	**4.3000e-004**	**1.1000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.6845**	**0.6845**	**3.0000e-005**	**0.0000**	**0.6851**

3.3 Structural rehabilitation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3600e-003	0.0277	0.0345	6.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	5.2047	5.2047	2.7000e-004	0.0000	5.2116
Total	**3.3600e-003**	**0.0277**	**0.0345**	**6.0000e-005**		**1.4300e-003**	**1.4300e-003**		**1.4300e-003**	**1.4300e-003**	**0.0000**	**5.2047**	**5.2047**	**2.7000e-004**	**0.0000**	**5.2116**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.3600e-003	0.0277	0.0345	6.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	5.2047	5.2047	2.7000e-004	0.0000	5.2116
Total	**3.3600e-003**	**0.0277**	**0.0345**	**6.0000e-005**		**1.4300e-003**	**1.4300e-003**		**1.4300e-003**	**1.4300e-003**	**0.0000**	**5.2047**	**5.2047**	**2.7000e-004**	**0.0000**	**5.2116**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

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	4.9300e-003	0.0433	0.0559	9.0000e-005		2.1800e-003	2.1800e-003		2.1100e-003	2.1100e-003	0.0000	7.7996	7.7996	1.2600e-003	0.0000	7.8312
Total	**4.9300e-003**	**0.0433**	**0.0559**	**9.0000e-005**		**2.1800e-003**	**2.1800e-003**		**2.1100e-003**	**2.1100e-003**	**0.0000**	**7.7996**	**7.7996**	**1.2600e-003**	**0.0000**	**7.8312**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.9300e-003	0.0433	0.0559	9.0000e-005		2.1800e-003	2.1800e-003		2.1100e-003	2.1100e-003	0.0000	7.7996	7.7996	1.2600e-003	0.0000	7.8312
Total	**4.9300e-003**	**0.0433**	**0.0559**	**9.0000e-005**		**2.1800e-003**	**2.1800e-003**		**2.1100e-003**	**2.1100e-003**	**0.0000**	**7.7996**	**7.7996**	**1.2600e-003**	**0.0000**	**7.8312**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0000e-005	5.8000e-004	1.5000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1284	0.1284	0.0000	0.0000	0.1285
Worker	8.0000e-005	7.0000e-005	6.1000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1371	0.1371	1.0000e-005	0.0000	0.1372
Total	**1.0000e-004**	**6.5000e-004**	**7.6000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.2654**	**0.2654**	**1.0000e-005**	**0.0000**	**0.2657**

3.5 Testing - 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	8.2000e-004	7.3200e-003	9.1900e-003	2.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	1.4130	1.4130	7.0000e-005	0.0000	1.4147
Total	**8.2000e-004**	**7.3200e-003**	**9.1900e-003**	**2.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**1.4130**	**1.4130**	**7.0000e-005**	**0.0000**	**1.4147**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1028	0.1028	0.0000	0.0000	0.1029
Total	**6.0000e-005**	**5.0000e-005**	**4.6000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1028**	**0.1028**	**0.0000**	**0.0000**	**0.1029**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	8.2000e-004	7.3200e-003	9.1900e-003	2.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	1.4130	1.4130	7.0000e-005	0.0000	1.4147
Total	**8.2000e-004**	**7.3200e-003**	**9.1900e-003**	**2.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**1.4130**	**1.4130**	**7.0000e-005**	**0.0000**	**1.4147**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	6.0000e-005	5.0000e-005	4.6000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1028	0.1028	0.0000	0.0000	0.1029
Total	**6.0000e-005**	**5.0000e-005**	**4.6000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1028**	**0.1028**	**0.0000**	**0.0000**	**0.1029**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate	Unmitigated	Mitigated

Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.2000e-003	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	5.0000e-005
Unmitigated	9.2000e-003	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	5.0000e-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	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.8100e-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	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	5.0000e-005
Total	**9.2000e-003**	**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**	**5.0000e-005**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.8100e-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	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	5.0000e-005
Total	**9.2000e-003**	**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**	**5.0000e-005**

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Pump Station Upgrades SCWD-SqCWD

Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Pump station upgrades for SCWD-SqCWD intertie

Land Use - General light industry assumed as pump station surrogate

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Demolition - Assume 800 square feet demo of old pump station/debris off haul

Architectural Coating - Default

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	PhaseEndDate	9/6/2022	4/22/2022
tblConstructionPhase	PhaseStartDate	4/20/2022	4/17/2022
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

tblWater	IndoorWaterUseRate	462,500.00	0.00

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					
2022	2.0095	17.5799	22.6587	0.0375	0.1640	0.8737	0.9529	0.0350	0.8449	0.8662	0.0000	3,559.5300	3,559.5300	0.5609	0.0000	3,573.5525
Maximum	**2.0095**	**17.5799**	**22.6587**	**0.0375**	**0.1640**	**0.8737**	**0.9529**	**0.0350**	**0.8449**	**0.8662**	**0.0000**	**3,559.5300**	**3,559.5300**	**0.5609**	**0.0000**	**3,573.5525**

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					
2022	2.0095	17.5799	22.6587	0.0375	0.1212	0.8737	0.9529	0.0285	0.8449	0.8662	0.0000	3,559.5300	3,559.5300	0.5609	0.0000	3,573.5524
Maximum	**2.0095**	**17.5799**	**22.6587**	**0.0375**	**0.1212**	**0.8737**	**0.9529**	**0.0285**	**0.8449**	**0.8662**	**0.0000**	**3,559.5300**	**3,559.5300**	**0.5609**	**0.0000**	**3,573.5524**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**26.11**	**0.00**	**0.00**	**18.52**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Demolition	Demolition	4/1/2022	4/14/2022	5	10	
2	Structural rehabilitation	Building Construction	4/17/2022	4/22/2022	5	5	
3	Building construction	Building Construction	4/24/2022	4/29/2022	5	5	
4	Testing	Building Construction	5/1/2022	5/6/2022	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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building construction	Cranes	0	0.00	231	0.29
Testing	Cranes	0	0.00	231	0.29
Building construction	Forklifts	1	8.00	89	0.20
Testing	Forklifts	0	0.00	89	0.20
Building construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Structural rehabilitation	Cranes	0	0.00	231	0.29
Structural rehabilitation	Forklifts	0	0.00	89	0.20
Structural rehabilitation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Excavators	1	8.00	158	0.38
Demolition	Pumps	1	8.00	84	0.74
Structural rehabilitation	Air Compressors	1	8.00	78	0.48
Structural rehabilitation	Cement and Mortar Mixers	1	8.00	9	0.56

Structural rehabilitation	Generator Sets	2	8.00	84	0.74
Structural rehabilitation	Pumps	1	8.00	84	0.74
Building construction	Aerial Lifts	1	8.00	63	0.31
Building construction	Generator Sets	2	8.00	84	0.74
Building construction	Pavers	1	8.00	130	0.42
Building construction	Pumps	1	8.00	84	0.74
Building construction	Welders	1	8.00	46	0.45
Testing	Generator Sets	1	8.00	84	0.74

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	9	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Structural rehabilitation	5	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0778	0.0000	0.0778	0.0118	0.0000	0.0118			0.0000			0.0000
Off-Road	0.8848	8.1060	11.4792	0.0180		0.4223	0.4223		0.4009	0.4009		1,728.0278	1,728.0278	0.3892		1,737.7571
Total	**0.8848**	**8.1060**	**11.4792**	**0.0180**	**0.0778**	**0.4223**	**0.5001**	**0.0118**	**0.4009**	**0.4127**		**1,728.0278**	**1,728.0278**	**0.3892**		**1,737.7571**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.8400e-003	0.1150	0.0265	3.2000e-004	6.9300e-003	4.3000e-004	7.3600e-003	1.8900e-003	4.1000e-004	2.3100e-003		34.0528	34.0528	1.3500e-003		34.0867
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0402**	**0.3676**	**0.3360**	**1.5000e-003**	**0.0861**	**1.6300e-003**	**0.0878**	**0.0232**	**1.5400e-003**	**0.0248**		**154.5453**	**154.5453**	**5.7800e-003**		**154.6899**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0350	0.0000	0.0350	5.3000e-003	0.0000	5.3000e-003			0.0000			0.0000
Off-Road	0.8848	8.1060	11.4792	0.0180		0.4223	0.4223		0.4009	0.4009	0.0000	1,728.0278	1,728.0278	0.3892		1,737.7571
Total	**0.8848**	**8.1060**	**11.4792**	**0.0180**	**0.0350**	**0.4223**	**0.4573**	**5.3000e-003**	**0.4009**	**0.4062**	**0.0000**	**1,728.0278**	**1,728.0278**	**0.3892**		**1,737.7571**

Mitigated Construction Off-Site

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

Category	lb/day										lb/day					
Hauling	2.8400e-003	0.1150	0.0265	3.2000e-004	6.9300e-003	4.3000e-004	7.3600e-003	1.8900e-003	4.1000e-004	2.3100e-003		34.0528	34.0528	1.3500e-003		34.0867
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0402**	**0.3676**	**0.3360**	**1.5000e-003**	**0.0861**	**1.6300e-003**	**0.0878**	**0.0232**	**1.5400e-003**	**0.0248**		**154.5453**	**154.5453**	**5.7800e-003**		**154.6899**

3.3 Structural rehabilitation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3434	11.0715	13.8103	0.0244		0.5728	0.5728		0.5728	0.5728		2,294.8841	2,294.8841	0.1207		2,297.9009
Total	**1.3434**	**11.0715**	**13.8103**	**0.0244**		**0.5728**	**0.5728**		**0.5728**	**0.5728**		**2,294.8841**	**2,294.8841**	**0.1207**		**2,297.9009**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441

Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3434	11.0715	13.8103	0.0244		0.5728	0.5728		0.5728	0.5728	0.0000	2,294.8841	2,294.8841	0.1207		2,297.9009
Total	**1.3434**	**11.0715**	**13.8103**	**0.0244**		**0.5728**	**0.5728**		**0.5728**	**0.5728**	**0.0000**	**2,294.8841**	**2,294.8841**	**0.1207**		**2,297.9009**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

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	1.9721	17.3273	22.3492	0.0364		0.8725	0.8725		0.8437	0.8437		3,439.0375	3,439.0375	0.5565		3,452.9492
Total	**1.9721**	**17.3273**	**22.3492**	**0.0364**		**0.8725**	**0.8725**		**0.8437**	**0.8437**		**3,439.0375**	**3,439.0375**	**0.5565**		**3,452.9492**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9721	17.3273	22.3492	0.0364		0.8725	0.8725		0.8437	0.8437	0.0000	3,439.0375	3,439.0375	0.5565		3,452.9492
Total	**1.9721**	**17.3273**	**22.3492**	**0.0364**		**0.8725**	**0.8725**		**0.8437**	**0.8437**	**0.0000**	**3,439.0375**	**3,439.0375**	**0.5565**		**3,452.9492**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3500e-003	0.2293	0.0562	5.4000e-004	0.0135	6.8000e-004	0.0142	3.8800e-003	6.5000e-004	4.5300e-003		57.1058	57.1058	2.1300e-003		57.1591
Worker	0.0310	0.0234	0.2533	6.4000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		63.3866	63.3866	2.3000e-003		63.4441
Total	**0.0373**	**0.2526**	**0.3095**	**1.1800e-003**	**0.0792**	**1.2000e-003**	**0.0804**	**0.0213**	**1.1300e-003**	**0.0224**		**120.4924**	**120.4924**	**4.4300e-003**		**120.6033**

3.5 Testing - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3300	2.9283	3.6759	6.5800e-003		0.1469	0.1469		0.1469	0.1469		623.0346	623.0346	0.0296		623.7746
Total	**0.3300**	**2.9283**	**3.6759**	**6.5800e-003**		**0.1469**	**0.1469**		**0.1469**	**0.1469**		**623.0346**	**623.0346**	**0.0296**		**623.7746**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0232	0.0175	0.1899	4.8000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.5400	47.5400	1.7300e-003		47.5831
Total	**0.0232**	**0.0175**	**0.1899**	**4.8000e-004**	**0.0493**	**3.9000e-004**	**0.0497**	**0.0131**	**3.6000e-004**	**0.0134**		**47.5400**	**47.5400**	**1.7300e-003**		**47.5831**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3300	2.9283	3.6759	6.5800e-003		0.1469	0.1469		0.1469	0.1469	0.0000	623.0346	623.0346	0.0296		623.7746
Total	**0.3300**	**2.9283**	**3.6759**	**6.5800e-003**		**0.1469**	**0.1469**		**0.1469**	**0.1469**	**0.0000**	**623.0346**	**623.0346**	**0.0296**		**623.7746**

Mitigated Construction Off-Site

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

Worker	0.0232	0.0175	0.1899	4.8000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		47.5400	47.5400	1.7300e-003		47.5831
Total	**0.0232**	**0.0175**	**0.1899**	**4.8000e-004**	**0.0493**	**3.9000e-004**	**0.0497**	**0.0131**	**3.6000e-004**	**0.0134**		**47.5400**	**47.5400**	**1.7300e-003**		**47.5831**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Unmitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Pump Station Upgrades SCWD-SqCWD

Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Pump station upgrades for SCWD-SqCWD intertie

Land Use - General light industry assumed as pump station surrogate

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Demolition - Assume 800 square feet demo of old pump station/debris off haul

Architectural Coating - Default

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	PhaseEndDate	9/6/2022	4/22/2022
tblConstructionPhase	PhaseStartDate	4/20/2022	4/17/2022
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

tblWater	IndoorWaterUseRate	462,500.00	0.00

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					
2022	2.0137	17.5873	22.6688	0.0375	0.1640	0.8737	0.9529	0.0350	0.8449	0.8662	0.0000	3,555.3207	3,555.3207	0.5610	0.0000	3,569.3450
Maximum	**2.0137**	**17.5873**	**22.6688**	**0.0375**	**0.1640**	**0.8737**	**0.9529**	**0.0350**	**0.8449**	**0.8662**	**0.0000**	**3,555.3207**	**3,555.3207**	**0.5610**	**0.0000**	**3,569.3450**

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					
2022	2.0137	17.5873	22.6688	0.0375	0.1212	0.8737	0.9529	0.0285	0.8449	0.8662	0.0000	3,555.3207	3,555.3207	0.5610	0.0000	3,569.3450
Maximum	**2.0137**	**17.5873**	**22.6688**	**0.0375**	**0.1212**	**0.8737**	**0.9529**	**0.0285**	**0.8449**	**0.8662**	**0.0000**	**3,555.3207**	**3,555.3207**	**0.5610**	**0.0000**	**3,569.3450**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**26.11**	**0.00**	**0.00**	**18.52**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

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	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Demolition	Demolition	4/1/2022	4/14/2022	5	10	
2	Structural rehabilitation	Building Construction	4/17/2022	4/22/2022	5	5	
3	Building construction	Building Construction	4/24/2022	4/29/2022	5	5	
4	Testing	Building Construction	5/1/2022	5/6/2022	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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building construction	Cranes	0	0.00	231	0.29
Testing	Cranes	0	0.00	231	0.29
Building construction	Forklifts	1	8.00	89	0.20
Testing	Forklifts	0	0.00	89	0.20
Building construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Structural rehabilitation	Cranes	0	0.00	231	0.29
Structural rehabilitation	Forklifts	0	0.00	89	0.20
Structural rehabilitation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Testing	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demolition	Excavators	1	8.00	158	0.38
Demolition	Pumps	1	8.00	84	0.74
Structural rehabilitation	Air Compressors	1	8.00	78	0.48
Structural rehabilitation	Cement and Mortar Mixers	1	8.00	9	0.56

Structural rehabilitation	Generator Sets	2	8.00	84	0.74
Structural rehabilitation	Pumps	1	8.00	84	0.74
Building construction	Aerial Lifts	1	8.00	63	0.31
Building construction	Generator Sets	2	8.00	84	0.74
Building construction	Pavers	1	8.00	130	0.42
Building construction	Pumps	1	8.00	84	0.74
Building construction	Welders	1	8.00	46	0.45
Testing	Generator Sets	1	8.00	84	0.74

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	9	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Structural rehabilitation	5	8.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	8.00	2.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Testing	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0778	0.0000	0.0778	0.0118	0.0000	0.0118			0.0000			0.0000
Off-Road	0.8848	8.1060	11.4792	0.0180		0.4223	0.4223		0.4009	0.4009		1,728.0278	1,728.0278	0.3892		1,737.7571
Total	**0.8848**	**8.1060**	**11.4792**	**0.0180**	**0.0778**	**0.4223**	**0.5001**	**0.0118**	**0.4009**	**0.4127**		**1,728.0278**	**1,728.0278**	**0.3892**		**1,737.7571**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.9200e-003	0.1172	0.0279	3.1000e-004	6.9300e-003	4.5000e-004	7.3700e-003	1.8900e-003	4.3000e-004	2.3200e-003		33.5873	33.5873	1.4000e-003		33.6223
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0444**	**0.3772**	**0.3475**	**1.4500e-003**	**0.0861**	**1.6900e-003**	**0.0878**	**0.0232**	**1.6000e-003**	**0.0248**		**149.8704**	**149.8704**	**5.9100e-003**		**150.0181**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0350	0.0000	0.0350	5.3000e-003	0.0000	5.3000e-003			0.0000			0.0000
Off-Road	0.8848	8.1060	11.4792	0.0180		0.4223	0.4223		0.4009	0.4009	0.0000	1,728.0278	1,728.0278	0.3892		1,737.7571
Total	**0.8848**	**8.1060**	**11.4792**	**0.0180**	**0.0350**	**0.4223**	**0.4573**	**5.3000e-003**	**0.4009**	**0.4062**	**0.0000**	**1,728.0278**	**1,728.0278**	**0.3892**		**1,737.7571**

Mitigated Construction Off-Site

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

Category	lb/day										lb/day					
Hauling	2.9200e-003	0.1172	0.0279	3.1000e-004	6.9300e-003	4.5000e-004	7.3700e-003	1.8900e-003	4.3000e-004	2.3200e-003		33.5873	33.5873	1.4000e-003		33.6223
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0444**	**0.3772**	**0.3475**	**1.4500e-003**	**0.0861**	**1.6900e-003**	**0.0878**	**0.0232**	**1.6000e-003**	**0.0248**		**149.8704**	**149.8704**	**5.9100e-003**		**150.0181**

3.3 Structural rehabilitation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3434	11.0715	13.8103	0.0244		0.5728	0.5728		0.5728	0.5728		2,294.8841	2,294.8841	0.1207		2,297.9009
Total	**1.3434**	**11.0715**	**13.8103**	**0.0244**		**0.5728**	**0.5728**		**0.5728**	**0.5728**		**2,294.8841**	**2,294.8841**	**0.1207**		**2,297.9009**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504

Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3434	11.0715	13.8103	0.0244		0.5728	0.5728		0.5728	0.5728	0.0000	2,294.8841	2,294.8841	0.1207		2,297.9009
Total	**1.3434**	**11.0715**	**13.8103**	**0.0244**		**0.5728**	**0.5728**		**0.5728**	**0.5728**	**0.0000**	**2,294.8841**	**2,294.8841**	**0.1207**		**2,297.9009**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

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	1.9721	17.3273	22.3492	0.0364		0.8725	0.8725		0.8437	0.8437		3,439.0375	3,439.0375	0.5565		3,452.9492
Total	**1.9721**	**17.3273**	**22.3492**	**0.0364**		**0.8725**	**0.8725**		**0.8437**	**0.8437**		**3,439.0375**	**3,439.0375**	**0.5565**		**3,452.9492**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9721	17.3273	22.3492	0.0364		0.8725	0.8725		0.8437	0.8437	0.0000	3,439.0375	3,439.0375	0.5565		3,452.9492
Total	**1.9721**	**17.3273**	**22.3492**	**0.0364**		**0.8725**	**0.8725**		**0.8437**	**0.8437**	**0.0000**	**3,439.0375**	**3,439.0375**	**0.5565**		**3,452.9492**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.7600e-003	0.2309	0.0639	5.3000e-004	0.0135	7.2000e-004	0.0142	3.8800e-003	6.9000e-004	4.5600e-003		55.8885	55.8885	2.2800e-003		55.9455
Worker	0.0348	0.0291	0.2557	6.1000e-004	0.0657	5.2000e-004	0.0662	0.0174	4.8000e-004	0.0179		60.3946	60.3946	2.2300e-003		60.4504
Total	**0.0415**	**0.2600**	**0.3196**	**1.1400e-003**	**0.0792**	**1.2400e-003**	**0.0804**	**0.0213**	**1.1700e-003**	**0.0225**		**116.2831**	**116.2831**	**4.5100e-003**		**116.3958**

3.5 Testing - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3300	2.9283	3.6759	6.5800e-003		0.1469	0.1469		0.1469	0.1469		623.0346	623.0346	0.0296		623.7746
Total	**0.3300**	**2.9283**	**3.6759**	**6.5800e-003**		**0.1469**	**0.1469**		**0.1469**	**0.1469**		**623.0346**	**623.0346**	**0.0296**		**623.7746**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0261	0.0218	0.1918	4.6000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		45.2960	45.2960	1.6700e-003		45.3378
Total	**0.0261**	**0.0218**	**0.1918**	**4.6000e-004**	**0.0493**	**3.9000e-004**	**0.0497**	**0.0131**	**3.6000e-004**	**0.0134**		**45.2960**	**45.2960**	**1.6700e-003**		**45.3378**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3300	2.9283	3.6759	6.5800e-003		0.1469	0.1469		0.1469	0.1469	0.0000	623.0346	623.0346	0.0296		623.7746
Total	**0.3300**	**2.9283**	**3.6759**	**6.5800e-003**		**0.1469**	**0.1469**		**0.1469**	**0.1469**	**0.0000**	**623.0346**	**623.0346**	**0.0296**		**623.7746**

Mitigated Construction Off-Site

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

Worker	0.0261	0.0218	0.1918	4.6000e-004	0.0493	3.9000e-004	0.0497	0.0131	3.6000e-004	0.0134		45.2960	45.2960	1.6700e-003		45.3378
Total	**0.0261**	**0.0218**	**0.1918**	**4.6000e-004**	**0.0493**	**3.9000e-004**	**0.0497**	**0.0131**	**3.6000e-004**	**0.0134**		**45.2960**	**45.2960**	**1.6700e-003**		**45.3378**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.575986	0.028505	0.206594	0.118540	0.020331	0.004884	0.021052	0.012380	0.001237	0.002682	0.005754	0.000999	0.001058

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Unmitigated	0.0504	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.6200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0504**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Felton Diversion
Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2028
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Felton diversion improvement construction

Land Use - Surrogate land use for Felton diversion facility improvements

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - Assumed 0.5 acre would be disturbed and 64 CY material exported

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1000	0
tblAreaCoating	Area_Nonresidential_Interior	3000	0
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	NumDays	100.00	3.00
tblConstructionPhase	PhaseEndDate	6/28/2027	7/3/2027
tblConstructionPhase	PhaseEndDate	11/15/2027	7/9/2027
tblConstructionPhase	PhaseEndDate	4/3/2028	7/17/2027
tblConstructionPhase	PhaseEndDate	8/21/2028	7/31/2027
tblConstructionPhase	PhaseEndDate	5/28/2029	8/4/2027
tblConstructionPhase	PhaseStartDate	6/29/2027	7/5/2027
tblConstructionPhase	PhaseStartDate	11/16/2027	7/11/2027
tblConstructionPhase	PhaseStartDate	4/4/2028	7/18/2027
tblConstructionPhase	PhaseStartDate	1/9/2029	8/1/2027
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.50
tblGrading	MaterialExported	0.00	64.00
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors

tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pressure Washers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	HaulingTripNumber	8.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00

tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	462,500.00	0.00

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					
2027	0.0119	0.1045	0.1207	2.5000e-004	1.7800e-003	4.4800e-003	6.2600e-003	4.3000e-004	4.2800e-003	4.7100e-003	0.0000	21.5522	21.5522	3.4500e-003	0.0000	21.6383
Maximum	**0.0119**	**0.1045**	**0.1207**	**2.5000e-004**	**1.7800e-003**	**4.4800e-003**	**6.2600e-003**	**4.3000e-004**	**4.2800e-003**	**4.7100e-003**	**0.0000**	**21.5522**	**21.5522**	**3.4500e-003**	**0.0000**	**21.6383**

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					
2027	0.0119	0.1045	0.1207	2.5000e-004	1.6300e-003	4.4800e-003	6.1100e-003	4.1000e-004	4.2800e-003	4.7000e-003	0.0000	21.5522	21.5522	3.4500e-003	0.0000	21.6383
Maximum	**0.0119**	**0.1045**	**0.1207**	**2.5000e-004**	**1.6300e-003**	**4.4800e-003**	**6.1100e-003**	**4.1000e-004**	**4.2800e-003**	**4.7000e-003**	**0.0000**	**21.5522**	**21.5522**	**3.4500e-003**	**0.0000**	**21.6383**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**8.43**	**0.00**	**2.40**	**4.65**	**0.00**	**0.21**	**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	**6-27-2027**	**9-26-2027**	0.1111	0.1111
		Highest	0.1111	0.1111

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	7.8100e-003	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	5.0000e-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	**7.8100e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

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	7.8100e-003	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	5.0000e-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	**7.8100e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/27/2027	7/3/2027	5	5	
2	Fish screen replacement	Building Construction	7/5/2027	7/9/2027	5	5	
3	Install traveling brush	Building Construction	7/11/2027	7/17/2027	5	5	
4	Downstream outmigration route	Building Construction	7/18/2027	7/31/2027	5	10	
5	Site cleanup and testing	Building Construction	8/1/2027	8/4/2027	5	3	

Acres of Grading (Site Preparation Phase): 0.5

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Install traveling brush	Air Compressors	1	8.00	78	0.48
Site Preparation	Generator Sets	1	8.00	84	0.74
Site Preparation	Graders	0	0.00	187	0.41
Install traveling brush	Concrete/Industrial Saws	1	2.00	81	0.73
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Fish screen replacement	Air Compressors	1	8.00	78	0.48
Install traveling brush	Trenchers	1	2.00	78	0.50
Fish screen replacement	Cranes	1	4.00	231	0.29
Fish screen replacement	Forklifts	1	4.00	89	0.20
Fish screen replacement	Generator Sets	1	8.00	84	0.74
Install traveling brush	Plate Compactors	1	2.00	8	0.43
Fish screen replacement	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Install traveling brush	Cranes	1	4.00	231	0.29
Downstream outmigration route	Other Construction Equipment	1	8.00	172	0.42
Install traveling brush	Forklifts	1	4.00	89	0.20
Install traveling brush	Generator Sets	1	8.00	84	0.74
Install traveling brush	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Downstream outmigration route	Air Compressors	1	8.00	78	0.48
Downstream outmigration route	Cement and Mortar Mixers	1	1.00	9	0.56
Downstream outmigration route	Cranes	1	8.00	231	0.29
Downstream outmigration route	Forklifts	0	0.00	89	0.20
Downstream outmigration route	Generator Sets	1	8.00	84	0.74
Downstream outmigration route	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Cranes	1	8.00	231	0.29

Site Preparation	Pressure Washers	1	8.00	13	0.30
Site cleanup and testing	Cranes	1	8.00	231	0.29
Site cleanup and testing	Forklifts	0	0.00	89	0.20
Site cleanup and testing	Tractors/Loaders/Backhoes	0	0.00	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
Site Preparation	3	10.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fish screen replacement	4	10.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Install traveling brush	7	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Downstream outmigration route	5	10.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site cleanup and testing	1	10.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5500e-003	0.0146	0.0141	3.0000e-005		6.0000e-004	6.0000e-004		5.8000e-004	5.8000e-004	0.0000	2.7608	2.7608	4.7000e-004	0.0000	2.7725
Total	**1.5500e-003**	**0.0146**	**0.0141**	**3.0000e-005**	**2.7000e-004**	**6.0000e-004**	**8.7000e-004**	**3.0000e-005**	**5.8000e-004**	**6.1000e-004**	**0.0000**	**2.7608**	**2.7608**	**4.7000e-004**	**0.0000**	**2.7725**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	1.9000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0730	0.0730	0.0000	0.0000	0.0731
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1418	0.1418	0.0000	0.0000	0.1419
Total	**8.0000e-005**	**2.4000e-004**	**5.7000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.2148**	**0.2148**	**0.0000**	**0.0000**	**0.2150**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5500e-003	0.0146	0.0141	3.0000e-005		6.0000e-004	6.0000e-004		5.8000e-004	5.8000e-004	0.0000	2.7608	2.7608	4.7000e-004	0.0000	2.7725
Total	**1.5500e-003**	**0.0146**	**0.0141**	**3.0000e-005**	**1.2000e-004**	**6.0000e-004**	**7.2000e-004**	**1.0000e-005**	**5.8000e-004**	**5.9000e-004**	**0.0000**	**2.7608**	**2.7608**	**4.7000e-004**	**0.0000**	**2.7725**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	1.9000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0730	0.0730	0.0000	0.0000	0.0731

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1418	0.1418	0.0000	0.0000	0.1419
Total	**8.0000e-005**	**2.4000e-004**	**5.7000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.2148**	**0.2148**	**0.0000**	**0.0000**	**0.2150**

3.3 Fish screen replacement - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7400e-003	0.0148	0.0188	4.0000e-005		6.3000e-004	6.3000e-004		6.2000e-004	6.2000e-004	0.0000	3.0657	3.0657	3.6000e-004	0.0000	3.0746
Total	**1.7400e-003**	**0.0148**	**0.0188**	**4.0000e-005**		**6.3000e-004**	**6.3000e-004**		**6.2000e-004**	**6.2000e-004**	**0.0000**	**3.0657**	**3.0657**	**3.6000e-004**	**0.0000**	**3.0746**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	1.9000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0730	0.0730	0.0000	0.0000	0.0731
Vendor	1.0000e-005	4.3000e-004	1.1000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1235	0.1235	0.0000	0.0000	0.1236
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	3.7000e-004	0.0000	3.7000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.1418	0.1418	0.0000	0.0000	0.1419
Total	**9.0000e-005**	**6.7000e-004**	**6.8000e-004**	**0.0000**	**4.6000e-004**	**0.0000**	**4.6000e-004**	**1.2000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3384**	**0.3384**	**0.0000**	**0.0000**	**0.3386**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7400e-003	0.0148	0.0188	4.0000e-005		6.3000e-004	6.3000e-004		6.2000e-004	6.2000e-004	0.0000	3.0657	3.0657	3.6000e-004	0.0000	3.0746
Total	**1.7400e-003**	**0.0148**	**0.0188**	**4.0000e-005**		**6.3000e-004**	**6.3000e-004**		**6.2000e-004**	**6.2000e-004**	**0.0000**	**3.0657**	**3.0657**	**3.6000e-004**	**0.0000**	**3.0746**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	1.9000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0730	0.0730	0.0000	0.0000	0.0731
Vendor	1.0000e-005	4.3000e-004	1.1000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1235	0.1235	0.0000	0.0000	0.1236
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	3.7000e-004	0.0000	3.7000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.1418	0.1418	0.0000	0.0000	0.1419
Total	**9.0000e-005**	**6.7000e-004**	**6.8000e-004**	**0.0000**	**4.6000e-004**	**0.0000**	**4.6000e-004**	**1.2000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3384**	**0.3384**	**0.0000**	**0.0000**	**0.3386**

3.4 Install traveling brush - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1400e-003	0.0182	0.0228	4.0000e-005		8.2000e-004	8.2000e-004		7.9000e-004	7.9000e-004	0.0000	3.6078	3.6078	4.4000e-004	0.0000	3.6187
Total	**2.1400e-003**	**0.0182**	**0.0228**	**4.0000e-005**		**8.2000e-004**	**8.2000e-004**		**7.9000e-004**	**7.9000e-004**	**0.0000**	**3.6078**	**3.6078**	**4.4000e-004**	**0.0000**	**3.6187**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.3000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1235	0.1235	0.0000	0.0000	0.1236
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1418	0.1418	0.0000	0.0000	0.1419
Total	**8.0000e-005**	**4.8000e-004**	**6.2000e-004**	**0.0000**	**2.3000e-004**	**0.0000**	**2.3000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.2653**	**0.2653**	**0.0000**	**0.0000**	**0.2655**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.1400e-003	0.0182	0.0228	4.0000e-005		8.2000e-004	8.2000e-004		7.9000e-004	7.9000e-004	0.0000	3.6078	3.6078	4.4000e-004	0.0000	3.6187
Total	**2.1400e-003**	**0.0182**	**0.0228**	**4.0000e-005**		**8.2000e-004**	**8.2000e-004**		**7.9000e-004**	**7.9000e-004**	**0.0000**	**3.6078**	**3.6078**	**4.4000e-004**	**0.0000**	**3.6187**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	4.3000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1235	0.1235	0.0000	0.0000	0.1236
Worker	7.0000e-005	5.0000e-005	5.1000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1418	0.1418	0.0000	0.0000	0.1419
Total	**8.0000e-005**	**4.8000e-004**	**6.2000e-004**	**0.0000**	**2.3000e-004**	**0.0000**	**2.3000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.2653**	**0.2653**	**0.0000**	**0.0000**	**0.2655**

3.5 Downstream outmigration route - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.5500e-003	0.0493	0.0590	1.1000e-004		2.2100e-003	2.2100e-003		2.1000e-003	2.1000e-003	0.0000	9.7772	9.7772	1.8900e-003	0.0000	9.8244
Total	**5.5500e-003**	**0.0493**	**0.0590**	**1.1000e-004**		**2.2100e-003**	**2.2100e-003**		**2.1000e-003**	**2.1000e-003**	**0.0000**	**9.7772**	**9.7772**	**1.8900e-003**	**0.0000**	**9.8244**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	1.9000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0730	0.0730	0.0000	0.0000	0.0731
Vendor	2.0000e-005	8.7000e-004	2.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2471	0.2471	1.0000e-005	0.0000	0.2473
Worker	1.4000e-004	1.0000e-004	1.0100e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2836	0.2836	1.0000e-005	0.0000	0.2838
Total	**1.7000e-004**	**1.1600e-003**	**1.2900e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**4.9000e-004**	**1.3000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6037**	**0.6037**	**2.0000e-005**	**0.0000**	**0.6042**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.5500e-003	0.0493	0.0590	1.1000e-004		2.2100e-003	2.2100e-003		2.1000e-003	2.1000e-003	0.0000	9.7772	9.7772	1.8900e-003	0.0000	9.8244
Total	**5.5500e-003**	**0.0493**	**0.0590**	**1.1000e-004**		**2.2100e-003**	**2.2100e-003**		**2.1000e-003**	**2.1000e-003**	**0.0000**	**9.7772**	**9.7772**	**1.8900e-003**	**0.0000**	**9.8244**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	1.9000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0730	0.0730	0.0000	0.0000	0.0731
Vendor	2.0000e-005	8.7000e-004	2.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2471	0.2471	1.0000e-005	0.0000	0.2473
Worker	1.4000e-004	1.0000e-004	1.0100e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2836	0.2836	1.0000e-005	0.0000	0.2838
Total	**1.7000e-004**	**1.1600e-003**	**1.2900e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**4.9000e-004**	**1.3000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.6037**	**0.6037**	**2.0000e-005**	**0.0000**	**0.6042**

3.6 Site cleanup and testing - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.7000e-004	4.7500e-003	2.6000e-003	1.0000e-005		2.0000e-004	2.0000e-004		1.9000e-004	1.9000e-004	0.0000	0.7604	0.7604	2.5000e-004	0.0000	0.7666
Total	**4.7000e-004**	**4.7500e-003**	**2.6000e-003**	**1.0000e-005**		**2.0000e-004**	**2.0000e-004**		**1.9000e-004**	**1.9000e-004**	**0.0000**	**0.7604**	**0.7604**	**2.5000e-004**	**0.0000**	**0.7666**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	1.9000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0730	0.0730	0.0000	0.0000	0.0731
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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-005	3.0000e-005	3.0000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0851	0.0851	0.0000	0.0000	0.0851
Total	**5.0000e-005**	**2.2000e-004**	**3.6000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**3.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1581**	**0.1581**	**0.0000**	**0.0000**	**0.1582**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.7000e-004	4.7500e-003	2.6000e-003	1.0000e-005		2.0000e-004	2.0000e-004		1.9000e-004	1.9000e-004	0.0000	0.7604	0.7604	2.5000e-004	0.0000	0.7666
Total	**4.7000e-004**	**4.7500e-003**	**2.6000e-003**	**1.0000e-005**		**2.0000e-004**	**2.0000e-004**		**1.9000e-004**	**1.9000e-004**	**0.0000**	**0.7604**	**0.7604**	**2.5000e-004**	**0.0000**	**0.7666**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	1.9000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0730	0.0730	0.0000	0.0000	0.0731
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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-005	3.0000e-005	3.0000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0851	0.0851	0.0000	0.0000	0.0851
Total	**5.0000e-005**	**2.2000e-004**	**3.6000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**3.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1581**	**0.1581**	**0.0000**	**0.0000**	**0.1582**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.596952	0.024911	0.205643	0.109204	0.014768	0.004214	0.021216	0.013069	0.001228	0.002009	0.005071	0.000963	0.000752

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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

Category	tons/yr										MT/yr					
Mitigated	7.8100e-003	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	5.0000e-005
Unmitigated	7.8100e-003	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	5.0000e-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	7.8100e-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	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	5.0000e-005
Total	**7.8100e-003**	**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**	**5.0000e-005**

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	7.8100e-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	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	5.0000e-005

Total	**7.8100e-003**	**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**	**5.0000e-005**

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Felton Diversion
Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2028
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Felton diversion improvement construction

Land Use - Surrogate land use for Felton diversion facility improvements

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - Assumed 0.5 acre would be disturbed and 64 CY material exported

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1000	0
tblAreaCoating	Area_Nonresidential_Interior	3000	0
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	NumDays	100.00	3.00
tblConstructionPhase	PhaseEndDate	6/28/2027	7/3/2027
tblConstructionPhase	PhaseEndDate	11/15/2027	7/9/2027
tblConstructionPhase	PhaseEndDate	4/3/2028	7/17/2027
tblConstructionPhase	PhaseEndDate	8/21/2028	7/31/2027
tblConstructionPhase	PhaseEndDate	5/28/2029	8/4/2027
tblConstructionPhase	PhaseStartDate	6/29/2027	7/5/2027
tblConstructionPhase	PhaseStartDate	11/16/2027	7/11/2027
tblConstructionPhase	PhaseStartDate	4/4/2028	7/18/2027
tblConstructionPhase	PhaseStartDate	1/9/2029	8/1/2027
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.50
tblGrading	MaterialExported	0.00	64.00
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors

tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pressure Washers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	HaulingTripNumber	8.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00

tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	462,500.00	0.00

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					
2027	1.1438	10.0950	12.0636	0.0239	0.1963	0.4427	0.5418	0.0488	0.4205	0.4471	0.0000	2,292.2410	2,292.2410	0.4206	0.0000	2,302.7553
Maximum	**1.1438**	**10.0950**	**12.0636**	**0.0239**	**0.1963**	**0.4427**	**0.5418**	**0.0488**	**0.4205**	**0.4471**	**0.0000**	**2,292.2410**	**2,292.2410**	**0.4206**	**0.0000**	**2,302.7553**

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					
2027	1.1438	10.0950	12.0636	0.0239	0.1889	0.4427	0.5418	0.0488	0.4205	0.4471	0.0000	2,292.2410	2,292.2410	0.4206	0.0000	2,302.7553
Maximum	**1.1438**	**10.0950**	**12.0636**	**0.0239**	**0.1889**	**0.4427**	**0.5418**	**0.0488**	**0.4205**	**0.4471**	**0.0000**	**2,292.2410**	**2,292.2410**	**0.4206**	**0.0000**	**2,302.7553**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**3.75**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

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	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/27/2027	7/3/2027	5	5	
2	Fish screen replacement	Building Construction	7/5/2027	7/9/2027	5	5	
3	Install traveling brush	Building Construction	7/11/2027	7/17/2027	5	5	
4	Downstream outmigration route	Building Construction	7/18/2027	7/31/2027	5	10	
5	Site cleanup and testing	Building Construction	8/1/2027	8/4/2027	5	3	

Acres of Grading (Site Preparation Phase): 0.5

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Install traveling brush	Air Compressors	1	8.00	78	0.48

Site Preparation	Generator Sets	1	8.00	84	0.74
Site Preparation	Graders	0	0.00	187	0.41
Install traveling brush	Concrete/Industrial Saws	1	2.00	81	0.73
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Fish screen replacement	Air Compressors	1	8.00	78	0.48
Install traveling brush	Trenchers	1	2.00	78	0.50
Fish screen replacement	Cranes	1	4.00	231	0.29
Fish screen replacement	Forklifts	1	4.00	89	0.20
Fish screen replacement	Generator Sets	1	8.00	84	0.74
Install traveling brush	Plate Compactors	1	2.00	8	0.43
Fish screen replacement	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Install traveling brush	Cranes	1	4.00	231	0.29
Downstream outmigration route	Other Construction Equipment	1	8.00	172	0.42
Install traveling brush	Forklifts	1	4.00	89	0.20
Install traveling brush	Generator Sets	1	8.00	84	0.74
Install traveling brush	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Downstream outmigration route	Air Compressors	1	8.00	78	0.48
Downstream outmigration route	Cement and Mortar Mixers	1	1.00	9	0.56
Downstream outmigration route	Cranes	1	8.00	231	0.29
Downstream outmigration route	Forklifts	0	0.00	89	0.20
Downstream outmigration route	Generator Sets	1	8.00	84	0.74
Downstream outmigration route	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Cranes	1	8.00	231	0.29
Site Preparation	Pressure Washers	1	8.00	13	0.30
Site cleanup and testing	Cranes	1	8.00	231	0.29
Site cleanup and testing	Forklifts	0	0.00	89	0.20
Site cleanup and testing	Tractors/Loaders/Backhoes	0	0.00	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

Site Preparation	3	10.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fish screen replacement	4	10.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Install traveling brush	7	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Downstream outmigration route	5	10.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site cleanup and testing	1	10.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1072	0.0000	0.1072	0.0116	0.0000	0.0116			0.0000			0.0000
Off-Road	0.6189	5.8363	5.6247	0.0129		0.2414	0.2414		0.2307	0.2307		1,217.2895	1,217.2895	0.2063		1,222.4468
Total	**0.6189**	**5.8363**	**5.6247**	**0.0129**	**0.1072**	**0.2414**	**0.3486**	**0.0116**	**0.2307**	**0.2423**		**1,217.2895**	**1,217.2895**	**0.2063**		**1,222.4468**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.9900e-003	0.0743	0.0232	3.0000e-004	6.9300e-003	1.9000e-004	7.1200e-003	1.8900e-003	1.8000e-004	2.0800e-003		32.3860	32.3860	1.2900e-003		32.4184
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.0284	0.0176	0.2110	6.6000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		65.5715	65.5715	1.7100e-003		65.6142
Total	**0.0304**	**0.0918**	**0.2342**	**9.6000e-004**	**0.0891**	**7.3000e-004**	**0.0898**	**0.0237**	**6.7000e-004**	**0.0244**		**97.9575**	**97.9575**	**3.0000e-003**		**98.0326**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0482	0.0000	0.0482	5.2300e-003	0.0000	5.2300e-003			0.0000			0.0000
Off-Road	0.6189	5.8363	5.6247	0.0129		0.2414	0.2414		0.2307	0.2307	0.0000	1,217.2895	1,217.2895	0.2063		1,222.4468
Total	**0.6189**	**5.8363**	**5.6247**	**0.0129**	**0.0482**	**0.2414**	**0.2896**	**5.2300e-003**	**0.2307**	**0.2359**	**0.0000**	**1,217.2895**	**1,217.2895**	**0.2063**		**1,222.4468**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.9900e-003	0.0743	0.0232	3.0000e-004	6.9300e-003	1.9000e-004	7.1200e-003	1.8900e-003	1.8000e-004	2.0800e-003		32.3860	32.3860	1.2900e-003		32.4184
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0284	0.0176	0.2110	6.6000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		65.5715	65.5715	1.7100e-003		65.6142
Total	**0.0304**	**0.0918**	**0.2342**	**9.6000e-004**	**0.0891**	**7.3000e-004**	**0.0898**	**0.0237**	**6.7000e-004**	**0.0244**		**97.9575**	**97.9575**	**3.0000e-003**		**98.0326**

3.3 Fish screen replacement - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6941	5.9160	7.5068	0.0142		0.2533	0.2533		0.2462	0.2462		1,351.7272	1,351.7272	0.1578		1,355.6721
Total	**0.6941**	**5.9160**	**7.5068**	**0.0142**		**0.2533**	**0.2533**		**0.2462**	**0.2462**		**1,351.7272**	**1,351.7272**	**0.1578**		**1,355.6721**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.9900e-003	0.0743	0.0232	3.0000e-004	0.0122	1.9000e-004	0.0124	3.1900e-003	1.8000e-004	3.3800e-003		32.3860	32.3860	1.2900e-003		32.4184
Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0231	2.8000e-004	0.0234	6.2500e-003	2.7000e-004	6.5200e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0284	0.0176	0.2110	6.6000e-004	0.1535	5.4000e-004	0.1541	0.0393	4.9000e-004	0.0398		65.5715	65.5715	1.7100e-003		65.6142
Total	**0.0346**	**0.2642**	**0.2761**	**1.4800e-003**	**0.1889**	**1.0100e-003**	**0.1899**	**0.0488**	**9.4000e-004**	**0.0497**		**152.9261**	**152.9261**	**4.8400e-003**		**153.0473**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6941	5.9160	7.5068	0.0142		0.2533	0.2533		0.2462	0.2462	0.0000	1,351.7272	1,351.7272	0.1578		1,355.6721

Total	**0.6941**	**5.9160**	**7.5068**	**0.0142**		**0.2533**	**0.2533**		**0.2462**	**0.2462**	**0.0000**	**1,351.7272**	**1,351.7272**	**0.1578**		**1,355.6721**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.9900e-003	0.0743	0.0232	3.0000e-004	0.0122	1.9000e-004	0.0124	3.1900e-003	1.8000e-004	3.3800e-003		32.3860	32.3860	1.2900e-003		32.4184
Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0231	2.8000e-004	0.0234	6.2500e-003	2.7000e-004	6.5200e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0284	0.0176	0.2110	6.6000e-004	0.1535	5.4000e-004	0.1541	0.0393	4.9000e-004	0.0398		65.5715	65.5715	1.7100e-003		65.6142
Total	**0.0346**	**0.2642**	**0.2761**	**1.4800e-003**	**0.1889**	**1.0100e-003**	**0.1899**	**0.0488**	**9.4000e-004**	**0.0497**		**152.9261**	**152.9261**	**4.8400e-003**		**153.0473**

3.4 Install traveling brush - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.2857	9.1160	0.0167		0.3282	0.3282		0.3171	0.3171		1,590.7589	1,590.7589	0.1918		1,595.5542
Total	**0.8568**	**7.2857**	**9.1160**	**0.0167**		**0.3282**	**0.3282**		**0.3171**	**0.3171**		**1,590.7589**	**1,590.7589**	**0.1918**		**1,595.5542**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.7000e-004	4.1500e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0284	0.0176	0.2110	6.6000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		65.5715	65.5715	1.7100e-003		65.6142
Total	**0.0326**	**0.1899**	**0.2529**	**1.1800e-003**	**0.0956**	**8.2000e-004**	**0.0965**	**0.0257**	**7.6000e-004**	**0.0264**		**120.5401**	**120.5401**	**3.5500e-003**		**120.6289**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.2857	9.1160	0.0167		0.3282	0.3282		0.3171	0.3171	0.0000	1,590.7589	1,590.7589	0.1918		1,595.5542
Total	**0.8568**	**7.2857**	**9.1160**	**0.0167**		**0.3282**	**0.3282**		**0.3171**	**0.3171**	**0.0000**	**1,590.7589**	**1,590.7589**	**0.1918**		**1,595.5542**

Mitigated Construction Off-Site

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

Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.7000e-004	4.1500e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0284	0.0176	0.2110	6.6000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		65.5715	65.5715	1.7100e-003		65.6142
Total	**0.0326**	**0.1899**	**0.2529**	**1.1800e-003**	**0.0956**	**8.2000e-004**	**0.0965**	**0.0257**	**7.6000e-004**	**0.0264**		**120.5401**	**120.5401**	**3.5500e-003**		**120.6289**

3.5 Downstream outmigration route - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1102	9.8680	11.7991	0.0225		0.4418	0.4418		0.4197	0.4197		2,155.5079	2,155.5079	0.4164		2,165.9172
Total	**1.1102**	**9.8680**	**11.7991**	**0.0225**		**0.4418**	**0.4418**		**0.4197**	**0.4197**		**2,155.5079**	**2,155.5079**	**0.4164**		**2,165.9172**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.9000e-004	0.0371	0.0116	1.5000e-004	3.4700e-003	1.0000e-004	3.5600e-003	9.5000e-004	9.0000e-005	1.0400e-003		16.1930	16.1930	6.5000e-004		16.2092
Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.7000e-004	4.1500e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0284	0.0176	0.2110	6.6000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		65.5715	65.5715	1.7100e-003		65.6142
Total	**0.0336**	**0.2270**	**0.2645**	**1.3300e-003**	**0.0991**	**9.2000e-004**	**0.1000**	**0.0266**	**8.5000e-004**	**0.0275**		**136.7331**	**136.7331**	**4.2000e-003**		**136.8381**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1102	9.8680	11.7991	0.0225		0.4418	0.4418		0.4197	0.4197	0.0000	2,155.5079	2,155.5079	0.4164		2,165.9172
Total	**1.1102**	**9.8680**	**11.7991**	**0.0225**		**0.4418**	**0.4418**		**0.4197**	**0.4197**	**0.0000**	**2,155.5079**	**2,155.5079**	**0.4164**		**2,165.9172**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.9000e-004	0.0371	0.0116	1.5000e-004	3.4700e-003	1.0000e-004	3.5600e-003	9.5000e-004	9.0000e-005	1.0400e-003		16.1930	16.1930	6.5000e-004		16.2092
Vendor	4.2000e-003	0.1724	0.0419	5.2000e-004	0.0135	2.8000e-004	0.0138	3.8800e-003	2.7000e-004	4.1500e-003		54.9686	54.9686	1.8400e-003		55.0147
Worker	0.0284	0.0176	0.2110	6.6000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		65.5715	65.5715	1.7100e-003		65.6142
Total	**0.0336**	**0.2270**	**0.2645**	**1.3300e-003**	**0.0991**	**9.2000e-004**	**0.1000**	**0.0266**	**8.5000e-004**	**0.0275**		**136.7331**	**136.7331**	**4.2000e-003**		**136.8381**

3.6 Site cleanup and testing - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3128	3.1679	1.7365	5.7700e-003		0.1347	0.1347		0.1239	0.1239		558.8262	558.8262	0.1807		563.3446
Total	**0.3128**	**3.1679**	**1.7365**	**5.7700e-003**		**0.1347**	**0.1347**		**0.1239**	**0.1239**		**558.8262**	**558.8262**	**0.1807**		**563.3446**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.3100e-003	0.1238	0.0387	5.0000e-004	0.0116	3.2000e-004	0.0119	3.1600e-003	3.1000e-004	3.4700e-003		53.9767	53.9767	2.1600e-003		54.0307
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0284	0.0176	0.2110	6.6000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		65.5715	65.5715	1.7100e-003		65.6142
Total	**0.0318**	**0.1413**	**0.2497**	**1.1600e-003**	**0.0937**	**8.6000e-004**	**0.0946**	**0.0250**	**8.0000e-004**	**0.0258**		**119.5482**	**119.5482**	**3.8700e-003**		**119.6449**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3128	3.1679	1.7365	5.7700e-003		0.1347	0.1347		0.1239	0.1239	0.0000	558.8262	558.8262	0.1807		563.3446
Total	**0.3128**	**3.1679**	**1.7365**	**5.7700e-003**		**0.1347**	**0.1347**		**0.1239**	**0.1239**	**0.0000**	**558.8262**	**558.8262**	**0.1807**		**563.3446**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.3100e-003	0.1238	0.0387	5.0000e-004	0.0116	3.2000e-004	0.0119	3.1600e-003	3.1000e-004	3.4700e-003		53.9767	53.9767	2.1600e-003		54.0307
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0284	0.0176	0.2110	6.6000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		65.5715	65.5715	1.7100e-003		65.6142
Total	**0.0318**	**0.1413**	**0.2497**	**1.1600e-003**	**0.0937**	**8.6000e-004**	**0.0946**	**0.0250**	**8.0000e-004**	**0.0258**		**119.5482**	**119.5482**	**3.8700e-003**		**119.6449**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.596952	0.024911	0.205643	0.109204	0.014768	0.004214	0.021216	0.013069	0.001228	0.002009	0.005071	0.000963	0.000752

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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

Mitigated	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Unmitigated	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Felton Diversion

Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2028
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Felton diversion improvement construction

Land Use - Surrogate land use for Felton diversion facility improvements

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - Assumed 0.5 acre would be disturbed and 64 CY material exported

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1000	0
tblAreaCoating	Area_Nonresidential_Interior	3000	0
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDays	100.00	10.00
tblConstructionPhase	NumDays	100.00	3.00
tblConstructionPhase	PhaseEndDate	6/28/2027	7/3/2027
tblConstructionPhase	PhaseEndDate	11/15/2027	7/9/2027
tblConstructionPhase	PhaseEndDate	4/3/2028	7/17/2027
tblConstructionPhase	PhaseEndDate	8/21/2028	7/31/2027
tblConstructionPhase	PhaseEndDate	5/28/2029	8/4/2027
tblConstructionPhase	PhaseStartDate	6/29/2027	7/5/2027
tblConstructionPhase	PhaseStartDate	11/16/2027	7/11/2027
tblConstructionPhase	PhaseStartDate	4/4/2028	7/18/2027
tblConstructionPhase	PhaseStartDate	1/9/2029	8/1/2027
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.50
tblGrading	MaterialExported	0.00	64.00
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors

tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Pressure Washers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	HaulingTripNumber	8.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00

tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblTripsAndVMT	WorkerTripNumber	1.00	10.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	462,500.00	0.00

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					
2027	1.1480	10.1003	12.0688	0.0238	0.1963	0.4427	0.5418	0.0488	0.4206	0.4472	0.0000	2,287.7275	2,287.7275	0.4206	0.0000	2,298.2433
Maximum	**1.1480**	**10.1003**	**12.0688**	**0.0238**	**0.1963**	**0.4427**	**0.5418**	**0.0488**	**0.4206**	**0.4472**	**0.0000**	**2,287.7275**	**2,287.7275**	**0.4206**	**0.0000**	**2,298.2433**

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					
2027	1.1480	10.1003	12.0688	0.0238	0.1889	0.4427	0.5418	0.0488	0.4206	0.4472	0.0000	2,287.7275	2,287.7275	0.4206	0.0000	2,298.2433
Maximum	**1.1480**	**10.1003**	**12.0688**	**0.0238**	**0.1889**	**0.4427**	**0.5418**	**0.0488**	**0.4206**	**0.4472**	**0.0000**	**2,287.7275**	**2,287.7275**	**0.4206**	**0.0000**	**2,298.2433**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**3.75**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

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	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/27/2027	7/3/2027	5	5	
2	Fish screen replacement	Building Construction	7/5/2027	7/9/2027	5	5	
3	Install traveling brush	Building Construction	7/11/2027	7/17/2027	5	5	
4	Downstream outmigration route	Building Construction	7/18/2027	7/31/2027	5	10	
5	Site cleanup and testing	Building Construction	8/1/2027	8/4/2027	5	3	

Acres of Grading (Site Preparation Phase): 0.5

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Install traveling brush	Air Compressors	1	8.00	78	0.48

Site Preparation	Generator Sets	1	8.00	84	0.74
Site Preparation	Graders	0	0.00	187	0.41
Install traveling brush	Concrete/Industrial Saws	1	2.00	81	0.73
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Fish screen replacement	Air Compressors	1	8.00	78	0.48
Install traveling brush	Trenchers	1	2.00	78	0.50
Fish screen replacement	Cranes	1	4.00	231	0.29
Fish screen replacement	Forklifts	1	4.00	89	0.20
Fish screen replacement	Generator Sets	1	8.00	84	0.74
Install traveling brush	Plate Compactors	1	2.00	8	0.43
Fish screen replacement	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Install traveling brush	Cranes	1	4.00	231	0.29
Downstream outmigration route	Other Construction Equipment	1	8.00	172	0.42
Install traveling brush	Forklifts	1	4.00	89	0.20
Install traveling brush	Generator Sets	1	8.00	84	0.74
Install traveling brush	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Downstream outmigration route	Air Compressors	1	8.00	78	0.48
Downstream outmigration route	Cement and Mortar Mixers	1	1.00	9	0.56
Downstream outmigration route	Cranes	1	8.00	231	0.29
Downstream outmigration route	Forklifts	0	0.00	89	0.20
Downstream outmigration route	Generator Sets	1	8.00	84	0.74
Downstream outmigration route	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Cranes	1	8.00	231	0.29
Site Preparation	Pressure Washers	1	8.00	13	0.30
Site cleanup and testing	Cranes	1	8.00	231	0.29
Site cleanup and testing	Forklifts	0	0.00	89	0.20
Site cleanup and testing	Tractors/Loaders/Backhoes	0	0.00	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

Site Preparation	3	10.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fish screen replacement	4	10.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Install traveling brush	7	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Downstream outmigration route	5	10.00	2.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site cleanup and testing	1	10.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1072	0.0000	0.1072	0.0116	0.0000	0.0116			0.0000			0.0000
Off-Road	0.6189	5.8363	5.6247	0.0129		0.2414	0.2414		0.2307	0.2307		1,217.2895	1,217.2895	0.2063		1,222.4468
Total	**0.6189**	**5.8363**	**5.6247**	**0.0129**	**0.1072**	**0.2414**	**0.3486**	**0.0116**	**0.2307**	**0.2423**		**1,217.2895**	**1,217.2895**	**0.2063**		**1,222.4468**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.0400e-003	0.0753	0.0243	3.0000e-004	6.9300e-003	2.0000e-004	7.1300e-003	1.8900e-003	1.9000e-004	2.0800e-003		31.9323	31.9323	1.3300e-003		31.9657
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.0323	0.0218	0.2104	6.3000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		62.4747	62.4747	1.6300e-003		62.5155
Total	**0.0344**	**0.0971**	**0.2347**	**9.3000e-004**	**0.0891**	**7.4000e-004**	**0.0898**	**0.0237**	**6.8000e-004**	**0.0244**		**94.4071**	**94.4071**	**2.9600e-003**		**94.4812**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0482	0.0000	0.0482	5.2300e-003	0.0000	5.2300e-003			0.0000			0.0000
Off-Road	0.6189	5.8363	5.6247	0.0129		0.2414	0.2414		0.2307	0.2307	0.0000	1,217.2895	1,217.2895	0.2063		1,222.4468
Total	**0.6189**	**5.8363**	**5.6247**	**0.0129**	**0.0482**	**0.2414**	**0.2896**	**5.2300e-003**	**0.2307**	**0.2359**	**0.0000**	**1,217.2895**	**1,217.2895**	**0.2063**		**1,222.4468**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.0400e-003	0.0753	0.0243	3.0000e-004	6.9300e-003	2.0000e-004	7.1300e-003	1.8900e-003	1.9000e-004	2.0800e-003		31.9323	31.9323	1.3300e-003		31.9657
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0323	0.0218	0.2104	6.3000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		62.4747	62.4747	1.6300e-003		62.5155
Total	**0.0344**	**0.0971**	**0.2347**	**9.3000e-004**	**0.0891**	**7.4000e-004**	**0.0898**	**0.0237**	**6.8000e-004**	**0.0244**		**94.4071**	**94.4071**	**2.9600e-003**		**94.4812**

3.3 Fish screen replacement - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6941	5.9160	7.5068	0.0142		0.2533	0.2533		0.2462	0.2462		1,351.7272	1,351.7272	0.1578		1,355.6721
Total	**0.6941**	**5.9160**	**7.5068**	**0.0142**		**0.2533**	**0.2533**		**0.2462**	**0.2462**		**1,351.7272**	**1,351.7272**	**0.1578**		**1,355.6721**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.0400e-003	0.0753	0.0243	3.0000e-004	0.0122	2.0000e-004	0.0124	3.1900e-003	1.9000e-004	3.3800e-003		31.9323	31.9323	1.3300e-003		31.9657
Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0231	3.0000e-004	0.0234	6.2500e-003	2.8000e-004	6.5300e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0323	0.0218	0.2104	6.3000e-004	0.1535	5.4000e-004	0.1541	0.0393	4.9000e-004	0.0398		62.4747	62.4747	1.6300e-003		62.5155
Total	**0.0388**	**0.2700**	**0.2819**	**1.4400e-003**	**0.1889**	**1.0400e-003**	**0.1899**	**0.0488**	**9.6000e-004**	**0.0497**		**148.1858**	**148.1858**	**4.9200e-003**		**148.3090**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6941	5.9160	7.5068	0.0142		0.2533	0.2533		0.2462	0.2462	0.0000	1,351.7272	1,351.7272	0.1578		1,355.6721

Total	**0.6941**	**5.9160**	**7.5068**	**0.0142**		**0.2533**	**0.2533**		**0.2462**	**0.2462**	**0.0000**	**1,351.7272**	**1,351.7272**	**0.1578**		**1,355.6721**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.0400e-003	0.0753	0.0243	3.0000e-004	0.0122	2.0000e-004	0.0124	3.1900e-003	1.9000e-004	3.3800e-003		31.9323	31.9323	1.3300e-003		31.9657
Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0231	3.0000e-004	0.0234	6.2500e-003	2.8000e-004	6.5300e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0323	0.0218	0.2104	6.3000e-004	0.1535	5.4000e-004	0.1541	0.0393	4.9000e-004	0.0398		62.4747	62.4747	1.6300e-003		62.5155
Total	**0.0388**	**0.2700**	**0.2819**	**1.4400e-003**	**0.1889**	**1.0400e-003**	**0.1899**	**0.0488**	**9.6000e-004**	**0.0497**		**148.1858**	**148.1858**	**4.9200e-003**		**148.3090**

3.4 Install traveling brush - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.2857	9.1160	0.0167		0.3282	0.3282		0.3171	0.3171		1,590.7589	1,590.7589	0.1918		1,595.5542
Total	**0.8568**	**7.2857**	**9.1160**	**0.0167**		**0.3282**	**0.3282**		**0.3171**	**0.3171**		**1,590.7589**	**1,590.7589**	**0.1918**		**1,595.5542**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0135	3.0000e-004	0.0138	3.8800e-003	2.8000e-004	4.1600e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0323	0.0218	0.2104	6.3000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		62.4747	62.4747	1.6300e-003		62.5155
Total	**0.0368**	**0.1947**	**0.2576**	**1.1400e-003**	**0.0956**	**8.4000e-004**	**0.0965**	**0.0257**	**7.7000e-004**	**0.0264**		**116.2534**	**116.2534**	**3.5900e-003**		**116.3433**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.2857	9.1160	0.0167		0.3282	0.3282		0.3171	0.3171	0.0000	1,590.7589	1,590.7589	0.1918		1,595.5542
Total	**0.8568**	**7.2857**	**9.1160**	**0.0167**		**0.3282**	**0.3282**		**0.3171**	**0.3171**	**0.0000**	**1,590.7589**	**1,590.7589**	**0.1918**		**1,595.5542**

Mitigated Construction Off-Site

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

Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0135	3.0000e-004	0.0138	3.8800e-003	2.8000e-004	4.1600e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0323	0.0218	0.2104	6.3000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		62.4747	62.4747	1.6300e-003		62.5155
Total	**0.0368**	**0.1947**	**0.2576**	**1.1400e-003**	**0.0956**	**8.4000e-004**	**0.0965**	**0.0257**	**7.7000e-004**	**0.0264**		**116.2534**	**116.2534**	**3.5900e-003**		**116.3433**

3.5 Downstream outmigration route - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1102	9.8680	11.7991	0.0225		0.4418	0.4418		0.4197	0.4197		2,155.5079	2,155.5079	0.4164		2,165.9172
Total	**1.1102**	**9.8680**	**11.7991**	**0.0225**		**0.4418**	**0.4418**		**0.4197**	**0.4197**		**2,155.5079**	**2,155.5079**	**0.4164**		**2,165.9172**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0200e-003	0.0377	0.0121	1.5000e-004	3.4700e-003	1.0000e-004	3.5700e-003	9.5000e-004	1.0000e-004	1.0400e-003		15.9662	15.9662	6.7000e-004		15.9828
Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0135	3.0000e-004	0.0138	3.8800e-003	2.8000e-004	4.1600e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0323	0.0218	0.2104	6.3000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		62.4747	62.4747	1.6300e-003		62.5155
Total	**0.0378**	**0.2323**	**0.2697**	**1.2900e-003**	**0.0991**	**9.4000e-004**	**0.1000**	**0.0266**	**8.7000e-004**	**0.0275**		**132.2196**	**132.2196**	**4.2600e-003**		**132.3261**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1102	9.8680	11.7991	0.0225		0.4418	0.4418		0.4197	0.4197	0.0000	2,155.5079	2,155.5079	0.4164		2,165.9172
Total	**1.1102**	**9.8680**	**11.7991**	**0.0225**		**0.4418**	**0.4418**		**0.4197**	**0.4197**	**0.0000**	**2,155.5079**	**2,155.5079**	**0.4164**		**2,165.9172**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0200e-003	0.0377	0.0121	1.5000e-004	3.4700e-003	1.0000e-004	3.5700e-003	9.5000e-004	1.0000e-004	1.0400e-003		15.9662	15.9662	6.7000e-004		15.9828
Vendor	4.4600e-003	0.1728	0.0472	5.1000e-004	0.0135	3.0000e-004	0.0138	3.8800e-003	2.8000e-004	4.1600e-003		53.7787	53.7787	1.9600e-003		53.8278
Worker	0.0323	0.0218	0.2104	6.3000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		62.4747	62.4747	1.6300e-003		62.5155
Total	**0.0378**	**0.2323**	**0.2697**	**1.2900e-003**	**0.0991**	**9.4000e-004**	**0.1000**	**0.0266**	**8.7000e-004**	**0.0275**		**132.2196**	**132.2196**	**4.2600e-003**		**132.3261**

3.6 Site cleanup and testing - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3128	3.1679	1.7365	5.7700e-003		0.1347	0.1347		0.1239	0.1239		558.8262	558.8262	0.1807		563.3446
Total	**0.3128**	**3.1679**	**1.7365**	**5.7700e-003**		**0.1347**	**0.1347**		**0.1239**	**0.1239**		**558.8262**	**558.8262**	**0.1807**		**563.3446**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4100e-003	0.1255	0.0405	5.0000e-004	0.0116	3.3000e-004	0.0119	3.1600e-003	3.2000e-004	3.4700e-003		53.2206	53.2206	2.2200e-003		53.2761
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0323	0.0218	0.2104	6.3000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		62.4747	62.4747	1.6300e-003		62.5155
Total	**0.0358**	**0.1473**	**0.2509**	**1.1300e-003**	**0.0937**	**8.7000e-004**	**0.0946**	**0.0250**	**8.1000e-004**	**0.0258**		**115.6953**	**115.6953**	**3.8500e-003**		**115.7917**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3128	3.1679	1.7365	5.7700e-003		0.1347	0.1347		0.1239	0.1239	0.0000	558.8262	558.8262	0.1807		563.3446
Total	**0.3128**	**3.1679**	**1.7365**	**5.7700e-003**		**0.1347**	**0.1347**		**0.1239**	**0.1239**	**0.0000**	**558.8262**	**558.8262**	**0.1807**		**563.3446**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4100e-003	0.1255	0.0405	5.0000e-004	0.0116	3.3000e-004	0.0119	3.1600e-003	3.2000e-004	3.4700e-003		53.2206	53.2206	2.2200e-003		53.2761
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0323	0.0218	0.2104	6.3000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		62.4747	62.4747	1.6300e-003		62.5155
Total	**0.0358**	**0.1473**	**0.2509**	**1.1300e-003**	**0.0937**	**8.7000e-004**	**0.0946**	**0.0250**	**8.1000e-004**	**0.0258**		**115.6953**	**115.6953**	**3.8500e-003**		**115.7917**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.596952	0.024911	0.205643	0.109204	0.014768	0.004214	0.021216	0.013069	0.001228	0.002009	0.005071	0.000963	0.000752

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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

Mitigated	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Unmitigated	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Tait Diversion

Santa Cruz County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2029
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Tait diversion improvement construction

Land Use - Surrogate land use for Tait diversion facility improvements

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - Assumed 0.5 acre would be disturbed and 144 CY material exported

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1000	0
tblAreaCoating	Area_Nonresidential_Interior	3000	0
tblConstructionPhase	NumDays	100.00	45.00
tblConstructionPhase	NumDays	100.00	39.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	27.00
tblConstructionPhase	NumDays	100.00	13.00
tblConstructionPhase	NumDays	1.00	16.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.50
tblGrading	MaterialExported	0.00	144.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	HaulingTripNumber	18.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00

tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	462,500.00	0.00

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					
2028	0.1143	0.9852	1.4786	2.7000e-003	8.8700e-003	0.0404	0.0493	2.3300e-003	0.0396	0.0420	0.0000	233.4646	233.4646	0.0236	0.0000	234.0537
Maximum	**0.1143**	**0.9852**	**1.4786**	**2.7000e-003**	**8.8700e-003**	**0.0404**	**0.0493**	**2.3300e-003**	**0.0396**	**0.0420**	**0.0000**	**233.4646**	**233.4646**	**0.0236**	**0.0000**	**234.0537**

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					
2028	0.1143	0.9852	1.4786	2.7000e-003	8.7200e-003	0.0404	0.0491	2.3100e-003	0.0396	0.0420	0.0000	233.4644	233.4644	0.0236	0.0000	234.0534

Maximum	**0.1143**	**0.9852**	**1.4786**	**2.7000e-003**	**8.7200e-003**	**0.0404**	**0.0491**	**2.3100e-003**	**0.0396**	**0.0420**	**0.0000**	**233.4644**	**233.4644**	**0.0236**	**0.0000**	**234.0534**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**1.69**	**0.00**	**0.30**	**0.86**	**0.00**	**0.05**	**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	**5-15-2028**	**8-14-2028**	0.5248	0.5248
2	**8-15-2028**	**9-30-2028**	0.2359	0.2359
		Highest	0.5248	0.5248

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	7.8100e-003	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	5.0000e-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	**7.8100e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

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	7.8100e-003	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	5.0000e-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	**7.8100e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/15/2028	6/5/2028	5	16	
2	Intake design upgrades	Building Construction	6/6/2028	8/7/2028	5	45	
3	Hydraulic modifications	Building Construction	8/8/2028	10/1/2028	5	39	
4	Improvements to check dam	Building Construction	10/1/2028	10/20/2028	5	15	
5	Fish passage upgrades	Building Construction	10/21/2028	11/28/2028	5	27	
6	Site cleanup and testing	Building Construction	11/29/2028	12/15/2028	5	13	

Acres of Grading (Site Preparation Phase): 0.5

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Generator Sets	1	8.00	84	0.74
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Pumps	1	24.00	84	0.74
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Intake design upgrades	Air Compressors	1	8.00	78	0.48
Intake design upgrades	Cement and Mortar Mixers	1	8.00	9	0.56
Intake design upgrades	Cranes	1	8.00	231	0.29
Intake design upgrades	Forklifts	0	0.00	89	0.20
Intake design upgrades	Generator Sets	1	8.00	84	0.74
Intake design upgrades	Pumps	1	24.00	84	0.74
Intake design upgrades	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Hydraulic modifications	Cranes	0	0.00	231	0.29
Hydraulic modifications	Excavators	1	8.00	158	0.38
Hydraulic modifications	Forklifts	0	0.00	89	0.20
Hydraulic modifications	Generator Sets	1	8.00	84	0.74
Hydraulic modifications	Pumps	1	24.00	84	0.74
Hydraulic modifications	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Improvements to check dam	Air Compressors	1	8.00	78	0.48
Improvements to check dam	Cement and Mortar Mixers	1	8.00	9	0.56
Improvements to check dam	Cranes	0	0.00	231	0.29
Improvements to check dam	Forklifts	0	0.00	89	0.20
Improvements to check dam	Generator Sets	1	8.00	84	0.74
Improvements to check dam	Other Construction Equipment	1	4.00	172	0.42
Improvements to check dam	Pumps	1	24.00	84	0.74
Improvements to check dam	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Fish passage upgrades	Cranes	0	0.00	231	0.29
Fish passage upgrades	Excavators	1	8.00	158	0.38

Fish passage upgrades	Forklifts	0	0.00	89	0.20
Fish passage upgrades	Generator Sets	1	8.00	84	0.74
Fish passage upgrades	Other Construction Equipment	1	4.00	172	0.42
Fish passage upgrades	Pumps	1	24.00	84	0.74
Fish passage upgrades	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site cleanup and testing	Cranes	0	0.00	231	0.29
Site cleanup and testing	Excavators	1	8.00	158	0.38
Site cleanup and testing	Forklifts	0	0.00	89	0.20
Site cleanup and testing	Tractors/Loaders/Backhoes	0	0.00	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
Site Preparation	4	8.00	4.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Intake design upgrades	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Hydraulic modifications	4	8.00	4.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Improvements to check dam	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fish passage upgrades	5	8.00	4.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site cleanup and testing	1	6.00	3.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0114	0.0978	0.1624	2.8000e-004		4.1000e-003	4.1000e-003		4.0200e-003	4.0200e-003	0.0000	23.9100	23.9100	2.6000e-003	0.0000	23.9750
Total	**0.0114**	**0.0978**	**0.1624**	**2.8000e-004**	**2.7000e-004**	**4.1000e-003**	**4.3700e-003**	**3.0000e-005**	**4.0200e-003**	**4.0500e-003**	**0.0000**	**23.9100**	**23.9100**	**2.6000e-003**	**0.0000**	**23.9750**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1453	0.1453	1.0000e-005	0.0000	0.1455
Vendor	7.0000e-005	2.7100e-003	6.9000e-004	1.0000e-005	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.7874	0.7874	3.0000e-005	0.0000	0.7881
Worker	1.7000e-004	1.2000e-004	1.2000e-003	0.0000	5.1000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.3513	0.3513	1.0000e-005	0.0000	0.3515
Total	**2.5000e-004**	**3.1900e-003**	**2.0100e-003**	**1.0000e-005**	**7.5000e-004**	**0.0000**	**7.5000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**1.2841**	**1.2841**	**5.0000e-005**	**0.0000**	**1.2851**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.0978	0.1624	2.8000e-004		4.1000e-003	4.1000e-003		4.0200e-003	4.0200e-003	0.0000	23.9100	23.9100	2.6000e-003	0.0000	23.9750
Total	**0.0114**	**0.0978**	**0.1624**	**2.8000e-004**	**1.2000e-004**	**4.1000e-003**	**4.2200e-003**	**1.0000e-005**	**4.0200e-003**	**4.0300e-003**	**0.0000**	**23.9100**	**23.9100**	**2.6000e-003**	**0.0000**	**23.9750**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1453	0.1453	1.0000e-005	0.0000	0.1455
Vendor	7.0000e-005	2.7100e-003	6.9000e-004	1.0000e-005	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.7874	0.7874	3.0000e-005	0.0000	0.7881
Worker	1.7000e-004	1.2000e-004	1.2000e-003	0.0000	5.1000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.3513	0.3513	1.0000e-005	0.0000	0.3515
Total	**2.5000e-004**	**3.1900e-003**	**2.0100e-003**	**1.0000e-005**	**7.5000e-004**	**0.0000**	**7.5000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**1.2841**	**1.2841**	**5.0000e-005**	**0.0000**	**1.2851**

3.3 Intake design upgrades - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0388	0.3316	0.4334	8.3000e-004		0.0139	0.0139		0.0136	0.0136	0.0000	70.9661	70.9661	6.2300e-003	0.0000	71.1218
Total	**0.0388**	**0.3316**	**0.4334**	**8.3000e-004**		**0.0139**	**0.0139**		**0.0136**	**0.0136**	**0.0000**	**70.9661**	**70.9661**	**6.2300e-003**	**0.0000**	**71.1218**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.8000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0727	0.0727	0.0000	0.0000	0.0727

Vendor	1.9000e-004	7.6300e-003	1.9400e-003	2.0000e-005	1.0000e-003	1.0000e-005	1.0200e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	2.2146	2.2146	8.0000e-005	0.0000	2.2165
Worker	4.9000e-004	3.3000e-004	3.3900e-003	1.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	0.9881	0.9881	2.0000e-005	0.0000	0.9887
Total	**6.8000e-004**	**8.1400e-003**	**5.3900e-003**	**3.0000e-005**	**3.6900e-003**	**2.0000e-005**	**3.7200e-003**	**9.6000e-004**	**2.0000e-005**	**9.8000e-004**	**0.0000**	**3.2754**	**3.2754**	**1.0000e-004**	**0.0000**	**3.2779**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0388	0.3316	0.4334	8.3000e-004		0.0139	0.0139		0.0136	0.0136	0.0000	70.9660	70.9660	6.2300e-003	0.0000	71.1217
Total	**0.0388**	**0.3316**	**0.4334**	**8.3000e-004**		**0.0139**	**0.0139**		**0.0136**	**0.0136**	**0.0000**	**70.9660**	**70.9660**	**6.2300e-003**	**0.0000**	**71.1217**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.8000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0727	0.0727	0.0000	0.0000	0.0727
Vendor	1.9000e-004	7.6300e-003	1.9400e-003	2.0000e-005	1.0000e-003	1.0000e-005	1.0200e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	2.2146	2.2146	8.0000e-005	0.0000	2.2165
Worker	4.9000e-004	3.3000e-004	3.3900e-003	1.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	0.9881	0.9881	2.0000e-005	0.0000	0.9887
Total	**6.8000e-004**	**8.1400e-003**	**5.3900e-003**	**3.0000e-005**	**3.6900e-003**	**2.0000e-005**	**3.7200e-003**	**9.6000e-004**	**2.0000e-005**	**9.8000e-004**	**0.0000**	**3.2754**	**3.2754**	**1.0000e-004**	**0.0000**	**3.2779**

3.4 Hydraulic modifications - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0278	0.2385	0.3958	6.7000e-004		9.9800e-003	9.9800e-003		9.8100e-003	9.8100e-003	0.0000	58.2806	58.2806	6.3400e-003	0.0000	58.4390
Total	**0.0278**	**0.2385**	**0.3958**	**6.7000e-004**		**9.9800e-003**	**9.9800e-003**		**9.8100e-003**	**9.8100e-003**	**0.0000**	**58.2806**	**58.2806**	**6.3400e-003**	**0.0000**	**58.4390**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1453	0.1453	1.0000e-005	0.0000	0.1455
Vendor	1.6000e-004	6.6100e-003	1.6800e-003	2.0000e-005	5.1000e-004	1.0000e-005	5.2000e-004	1.5000e-004	1.0000e-005	1.6000e-004	0.0000	1.9193	1.9193	7.0000e-005	0.0000	1.9210
Worker	4.2000e-004	2.8000e-004	2.9300e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	0.8564	0.8564	2.0000e-005	0.0000	0.8569
Total	**5.9000e-004**	**7.2500e-003**	**4.7300e-003**	**3.0000e-005**	**1.7700e-003**	**2.0000e-005**	**1.7900e-003**	**4.9000e-004**	**2.0000e-005**	**5.1000e-004**	**0.0000**	**2.9210**	**2.9210**	**1.0000e-004**	**0.0000**	**2.9233**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0278	0.2385	0.3958	6.7000e-004		9.9800e-003	9.9800e-003		9.8100e-003	9.8100e-003	0.0000	58.2805	58.2805	6.3400e-003	0.0000	58.4389
Total	**0.0278**	**0.2385**	**0.3958**	**6.7000e-004**		**9.9800e-003**	**9.9800e-003**		**9.8100e-003**	**9.8100e-003**	**0.0000**	**58.2805**	**58.2805**	**6.3400e-003**	**0.0000**	**58.4389**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1453	0.1453	1.0000e-005	0.0000	0.1455
Vendor	1.6000e-004	6.6100e-003	1.6800e-003	2.0000e-005	5.1000e-004	1.0000e-005	5.2000e-004	1.5000e-004	1.0000e-005	1.6000e-004	0.0000	1.9193	1.9193	7.0000e-005	0.0000	1.9210
Worker	4.2000e-004	2.8000e-004	2.9300e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	0.8564	0.8564	2.0000e-005	0.0000	0.8569
Total	**5.9000e-004**	**7.2500e-003**	**4.7300e-003**	**3.0000e-005**	**1.7700e-003**	**2.0000e-005**	**1.7900e-003**	**4.9000e-004**	**2.0000e-005**	**5.1000e-004**	**0.0000**	**2.9210**	**2.9210**	**1.0000e-004**	**0.0000**	**2.9233**

3.5 Improvements to check dam - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0117	0.0971	0.1464	2.6000e-004		4.1400e-003	4.1400e-003		4.1000e-003	4.1000e-003	0.0000	21.8897	21.8897	1.5000e-003	0.0000	21.9273
Total	**0.0117**	**0.0971**	**0.1464**	**2.6000e-004**		**4.1400e-003**	**4.1400e-003**		**4.1000e-003**	**4.1000e-003**	**0.0000**	**21.8897**	**21.8897**	**1.5000e-003**	**0.0000**	**21.9273**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.8000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0727	0.0727	0.0000	0.0000	0.0727
Vendor	6.0000e-005	2.5400e-003	6.5000e-004	1.0000e-005	2.0000e-004	0.0000	2.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.7382	0.7382	3.0000e-005	0.0000	0.7388
Worker	1.6000e-004	1.1000e-004	1.1300e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3294	0.3294	1.0000e-005	0.0000	0.3296
Total	**2.2000e-004**	**2.8300e-003**	**1.8400e-003**	**1.0000e-005**	**6.9000e-004**	**0.0000**	**7.0000e-004**	**1.9000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**1.1402**	**1.1402**	**4.0000e-005**	**0.0000**	**1.1411**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0117	0.0971	0.1464	2.6000e-004		4.1400e-003	4.1400e-003		4.1000e-003	4.1000e-003	0.0000	21.8897	21.8897	1.5000e-003	0.0000	21.9273
Total	**0.0117**	**0.0971**	**0.1464**	**2.6000e-004**		**4.1400e-003**	**4.1400e-003**		**4.1000e-003**	**4.1000e-003**	**0.0000**	**21.8897**	**21.8897**	**1.5000e-003**	**0.0000**	**21.9273**

Mitigated Construction Off-Site

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

Hauling	0.0000	1.8000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0727	0.0727	0.0000	0.0000	0.0727
Vendor	6.0000e-005	2.5400e-003	6.5000e-004	1.0000e-005	2.0000e-004	0.0000	2.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.7382	0.7382	3.0000e-005	0.0000	0.7388
Worker	1.6000e-004	1.1000e-004	1.1300e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3294	0.3294	1.0000e-005	0.0000	0.3296
Total	**2.2000e-004**	**2.8300e-003**	**1.8400e-003**	**1.0000e-005**	**6.9000e-004**	**0.0000**	**7.0000e-004**	**1.9000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**1.1402**	**1.1402**	**4.0000e-005**	**0.0000**	**1.1411**

3.6 Fish passage upgrades - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0212	0.1838	0.3010	5.1000e-004		7.8800e-003	7.8800e-003		7.6800e-003	7.6800e-003	0.0000	44.0138	44.0138	5.5700e-003	0.0000	44.1531
Total	**0.0212**	**0.1838**	**0.3010**	**5.1000e-004**		**7.8800e-003**	**7.8800e-003**		**7.6800e-003**	**7.6800e-003**	**0.0000**	**44.0138**	**44.0138**	**5.5700e-003**	**0.0000**	**44.1531**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1453	0.1453	1.0000e-005	0.0000	0.1455
Vendor	1.1000e-004	4.5800e-003	1.1600e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3288	1.3288	5.0000e-005	0.0000	1.3299
Worker	2.9000e-004	2.0000e-004	2.0300e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.5929	0.5929	1.0000e-005	0.0000	0.5932
Total	**4.1000e-004**	**5.1400e-003**	**3.3100e-003**	**2.0000e-005**	**1.2300e-003**	**2.0000e-005**	**1.2500e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**2.0669**	**2.0669**	**7.0000e-005**	**0.0000**	**2.0686**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0212	0.1838	0.3010	5.1000e-004		7.8800e-003	7.8800e-003		7.6800e-003	7.6800e-003	0.0000	44.0137	44.0137	5.5700e-003	0.0000	44.1530
Total	**0.0212**	**0.1838**	**0.3010**	**5.1000e-004**		**7.8800e-003**	**7.8800e-003**		**7.6800e-003**	**7.6800e-003**	**0.0000**	**44.0137**	**44.0137**	**5.5700e-003**	**0.0000**	**44.1530**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0000e-005	3.6000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1453	0.1453	1.0000e-005	0.0000	0.1455
Vendor	1.1000e-004	4.5800e-003	1.1600e-003	1.0000e-005	3.5000e-004	1.0000e-005	3.6000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3288	1.3288	5.0000e-005	0.0000	1.3299
Worker	2.9000e-004	2.0000e-004	2.0300e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.5929	0.5929	1.0000e-005	0.0000	0.5932
Total	**4.1000e-004**	**5.1400e-003**	**3.3100e-003**	**2.0000e-005**	**1.2300e-003**	**2.0000e-005**	**1.2500e-003**	**3.4000e-004**	**1.0000e-005**	**3.5000e-004**	**0.0000**	**2.0669**	**2.0669**	**7.0000e-005**	**0.0000**	**2.0686**

3.7 Site cleanup and testing - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0900e-003	7.9400e-003	0.0212	3.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	2.9503	2.9503	9.5000e-004	0.0000	2.9742
Total	**1.0900e-003**	**7.9400e-003**	**0.0212**	**3.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**2.9503**	**2.9503**	**9.5000e-004**	**0.0000**	**2.9742**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.8000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0727	0.0727	0.0000	0.0000	0.0727
Vendor	4.0000e-005	1.6500e-003	4.2000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4798	0.4798	2.0000e-005	0.0000	0.4802
Worker	1.1000e-004	7.0000e-005	7.3000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2141	0.2141	1.0000e-005	0.0000	0.2142
Total	**1.5000e-004**	**1.9000e-003**	**1.2100e-003**	**0.0000**	**4.6000e-004**	**0.0000**	**4.6000e-004**	**1.2000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.7666**	**0.7666**	**3.0000e-005**	**0.0000**	**0.7672**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0900e-003	7.9400e-003	0.0212	3.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	2.9503	2.9503	9.5000e-004	0.0000	2.9742
Total	**1.0900e-003**	**7.9400e-003**	**0.0212**	**3.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**2.9503**	**2.9503**	**9.5000e-004**	**0.0000**	**2.9742**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.8000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0727	0.0727	0.0000	0.0000	0.0727
Vendor	4.0000e-005	1.6500e-003	4.2000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4798	0.4798	2.0000e-005	0.0000	0.4802
Worker	1.1000e-004	7.0000e-005	7.3000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2141	0.2141	1.0000e-005	0.0000	0.2142
Total	**1.5000e-004**	**1.9000e-003**	**1.2100e-003**	**0.0000**	**4.6000e-004**	**0.0000**	**4.6000e-004**	**1.2000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.7666**	**0.7666**	**3.0000e-005**	**0.0000**	**0.7672**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate	Unmitigated	Mitigated

Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.599608	0.024515	0.205520	0.108091	0.013987	0.004134	0.021227	0.013186	0.001229	0.001862	0.004978	0.000953	0.000710

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.8100e-003	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	5.0000e-005
Unmitigated	7.8100e-003	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	5.0000e-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	7.8100e-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	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	5.0000e-005
Total	**7.8100e-003**	**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**	**5.0000e-005**

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	7.8100e-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	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	5.0000e-005
Total	**7.8100e-003**	**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**	**5.0000e-005**

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Tait Diversion

Santa Cruz County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2029
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Tait diversion improvement construction

Land Use - Surrogate land use for Tait diversion facility improvements

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - Assumed 0.5 acre would be disturbed and 144 CY material exported

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1000	0
tblAreaCoating	Area_Nonresidential_Interior	3000	0
tblConstructionPhase	NumDays	100.00	45.00
tblConstructionPhase	NumDays	100.00	39.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	27.00
tblConstructionPhase	NumDays	100.00	13.00
tblConstructionPhase	NumDays	1.00	16.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.50
tblGrading	MaterialExported	0.00	144.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	HaulingTripNumber	18.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00

tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	462,500.00	0.00

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					
2028	3.0450	25.9216	40.3096	0.0719	0.1895	1.0663	1.2557	0.0515	1.0513	1.1028	0.0000	6,851.2888	6,851.2888	0.5899	0.0000	6,866.0366
Maximum	**3.0450**	**25.9216**	**40.3096**	**0.0719**	**0.1895**	**1.0663**	**1.2557**	**0.0515**	**1.0513**	**1.1028**	**0.0000**	**6,851.2888**	**6,851.2888**	**0.5899**	**0.0000**	**6,866.0366**

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					

2028	3.0450	25.9216	40.3096	0.0719	0.1895	1.0663	1.2557	0.0515	1.0513	1.1028	0.0000	6,851.2888	6,851.2888	0.5899	0.0000	6,866.0366
Maximum	**3.0450**	**25.9216**	**40.3096**	**0.0719**	**0.1895**	**1.0663**	**1.2557**	**0.0515**	**1.0513**	**1.1028**	**0.0000**	**6,851.2888**	**6,851.2888**	**0.5899**	**0.0000**	**6,866.0366**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

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	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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

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
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/15/2028	6/5/2028	5	16	
2	Intake design upgrades	Building Construction	6/6/2028	8/7/2028	5	45	
3	Hydraulic modifications	Building Construction	8/8/2028	10/1/2028	5	39	
4	Improvements to check dam	Building Construction	10/1/2028	10/20/2028	5	15	
5	Fish passage upgrades	Building Construction	10/21/2028	11/28/2028	5	27	
6	Site cleanup and testing	Building Construction	11/29/2028	12/15/2028	5	13	

Acres of Grading (Site Preparation Phase): 0.5

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Generator Sets	1	8.00	84	0.74
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Pumps	1	24.00	84	0.74
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Intake design upgrades	Air Compressors	1	8.00	78	0.48

Intake design upgrades	Cement and Mortar Mixers	1	8.00	9	0.56
Intake design upgrades	Cranes	1	8.00	231	0.29
Intake design upgrades	Forklifts	0	0.00	89	0.20
Intake design upgrades	Generator Sets	1	8.00	84	0.74
Intake design upgrades	Pumps	1	24.00	84	0.74
Intake design upgrades	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Hydraulic modifications	Cranes	0	0.00	231	0.29
Hydraulic modifications	Excavators	1	8.00	158	0.38
Hydraulic modifications	Forklifts	0	0.00	89	0.20
Hydraulic modifications	Generator Sets	1	8.00	84	0.74
Hydraulic modifications	Pumps	1	24.00	84	0.74
Hydraulic modifications	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Improvements to check dam	Air Compressors	1	8.00	78	0.48
Improvements to check dam	Cement and Mortar Mixers	1	8.00	9	0.56
Improvements to check dam	Cranes	0	0.00	231	0.29
Improvements to check dam	Forklifts	0	0.00	89	0.20
Improvements to check dam	Generator Sets	1	8.00	84	0.74
Improvements to check dam	Other Construction Equipment	1	4.00	172	0.42
Improvements to check dam	Pumps	1	24.00	84	0.74
Improvements to check dam	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Fish passage upgrades	Cranes	0	0.00	231	0.29
Fish passage upgrades	Excavators	1	8.00	158	0.38
Fish passage upgrades	Forklifts	0	0.00	89	0.20
Fish passage upgrades	Generator Sets	1	8.00	84	0.74
Fish passage upgrades	Other Construction Equipment	1	4.00	172	0.42
Fish passage upgrades	Pumps	1	24.00	84	0.74
Fish passage upgrades	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site cleanup and testing	Cranes	0	0.00	231	0.29
Site cleanup and testing	Excavators	1	8.00	158	0.38
Site cleanup and testing	Forklifts	0	0.00	89	0.20
Site cleanup and testing	Tractors/Loaders/Backhoes	0	0.00	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
Site Preparation	4	8.00	4.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Intake design upgrades	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Hydraulic modifications	4	8.00	4.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Improvements to check dam	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fish passage upgrades	5	8.00	4.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site cleanup and testing	1	6.00	3.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0339	0.0000	0.0339	3.7000e-003	0.0000	3.7000e-003			0.0000			0.0000
Off-Road	1.4241	12.2306	20.2948	0.0346		0.5120	0.5120		0.5028	0.5028		3,294.5320	3,294.5320	0.3582		3,303.4865
Total	**1.4241**	**12.2306**	**20.2948**	**0.0346**	**0.0339**	**0.5120**	**0.5459**	**3.7000e-003**	**0.5028**	**0.5065**		**3,294.5320**	**3,294.5320**	**0.3582**		**3,303.4865**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2200e-003	0.0446	0.0144	1.9000e-004	4.3300e-003	1.1000e-004	4.4400e-003	1.1800e-003	1.1000e-004	1.2900e-003		20.1420	20.1420	8.1000e-004		20.1622
Vendor	8.1200e-003	0.3366	0.0815	1.0300e-003	0.0270	5.3000e-004	0.0275	7.7600e-003	5.0000e-004	8.2600e-003		109.4924	109.4924	3.6500e-003		109.5836
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0307**	**0.3940**	**0.2529**	**1.7300e-003**	**0.0970**	**1.0400e-003**	**0.0981**	**0.0264**	**9.8000e-004**	**0.0274**		**180.4019**	**180.4019**	**5.7000e-003**		**180.5444**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0153	0.0000	0.0153	1.6600e-003	0.0000	1.6600e-003			0.0000			0.0000
Off-Road	1.4241	12.2306	20.2948	0.0346		0.5120	0.5120		0.5028	0.5028	0.0000	3,294.5320	3,294.5320	0.3582		3,303.4865
Total	**1.4241**	**12.2306**	**20.2948**	**0.0346**	**0.0153**	**0.5120**	**0.5272**	**1.6600e-003**	**0.5028**	**0.5045**	**0.0000**	**3,294.5320**	**3,294.5320**	**0.3582**		**3,303.4865**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2200e-003	0.0446	0.0144	1.9000e-004	4.3300e-003	1.1000e-004	4.4400e-003	1.1800e-003	1.1000e-004	1.2900e-003		20.1420	20.1420	8.1000e-004		20.1622
Vendor	8.1200e-003	0.3366	0.0815	1.0300e-003	0.0270	5.3000e-004	0.0275	7.7600e-003	5.0000e-004	8.2600e-003		109.4924	109.4924	3.6500e-003		109.5836

Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0307**	**0.3940**	**0.2529**	**1.7300e-003**	**0.0970**	**1.0400e-003**	**0.0981**	**0.0264**	**9.8000e-004**	**0.0274**		**180.4019**	**180.4019**	**5.7000e-003**		**180.5444**

3.3 Intake design upgrades - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7242	14.7373	19.2627	0.0368		0.6156	0.6156		0.6048	0.6048		3,476.7449	3,476.7449	0.3051		3,484.3729
Total	**1.7242**	**14.7373**	**19.2627**	**0.0368**		**0.6156**	**0.6156**		**0.6048**	**0.6048**		**3,476.7449**	**3,476.7449**	**0.3051**		**3,484.3729**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2000e-004	7.9200e-003	2.5700e-003	3.0000e-005	1.3600e-003	2.0000e-005	1.3800e-003	3.5000e-004	2.0000e-005	3.7000e-004		3.5808	3.5808	1.4000e-004		3.5844
Vendor	8.1200e-003	0.3366	0.0815	1.0300e-003	0.0463	5.3000e-004	0.0468	0.0125	5.0000e-004	0.0130		109.4924	109.4924	3.6500e-003		109.5836
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.1228	4.0000e-004	0.1232	0.0315	3.7000e-004	0.0318		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0297**	**0.3573**	**0.2410**	**1.5700e-003**	**0.1705**	**9.5000e-004**	**0.1714**	**0.0443**	**8.9000e-004**	**0.0452**		**163.8408**	**163.8408**	**5.0300e-003**		**163.9666**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7242	14.7373	19.2627	0.0368		0.6156	0.6156		0.6048	0.6048	0.0000	3,476.7449	3,476.7449	0.3051		3,484.3729
Total	**1.7242**	**14.7373**	**19.2627**	**0.0368**		**0.6156**	**0.6156**		**0.6048**	**0.6048**	**0.0000**	**3,476.7449**	**3,476.7449**	**0.3051**		**3,484.3729**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2000e-004	7.9200e-003	2.5700e-003	3.0000e-005	1.3600e-003	2.0000e-005	1.3800e-003	3.5000e-004	2.0000e-005	3.7000e-004		3.5808	3.5808	1.4000e-004		3.5844
Vendor	8.1200e-003	0.3366	0.0815	1.0300e-003	0.0463	5.3000e-004	0.0468	0.0125	5.0000e-004	0.0130		109.4924	109.4924	3.6500e-003		109.5836
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.1228	4.0000e-004	0.1232	0.0315	3.7000e-004	0.0318		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0297**	**0.3573**	**0.2410**	**1.5700e-003**	**0.1705**	**9.5000e-004**	**0.1714**	**0.0443**	**8.9000e-004**	**0.0452**		**163.8408**	**163.8408**	**5.0300e-003**		**163.9666**

3.4 Hydraulic modifications - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4241	12.2306	20.2948	0.0346		0.5120	0.5120		0.5028	0.5028		3,294.5320	3,294.5320	0.3582		3,303.4865

Total	**1.4241**	**12.2306**	**20.2948**	**0.0346**		**0.5120**	**0.5120**		**0.5028**	**0.5028**		**3,294.5320**	**3,294.5320**	**0.3582**		**3,303.4865**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0000e-004	0.0183	5.9200e-003	8.0000e-005	1.7800e-003	5.0000e-005	1.8200e-003	4.9000e-004	4.0000e-005	5.3000e-004		8.2634	8.2634	3.3000e-004		8.2717
Vendor	8.1200e-003	0.3366	0.0815	1.0300e-003	0.0270	5.3000e-004	0.0275	7.7600e-003	5.0000e-004	8.2600e-003		109.4924	109.4924	3.6500e-003		109.5836
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0299**	**0.3677**	**0.2443**	**1.6200e-003**	**0.0945**	**9.8000e-004**	**0.0954**	**0.0257**	**9.1000e-004**	**0.0266**		**168.5234**	**168.5234**	**5.2200e-003**		**168.6539**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4241	12.2306	20.2948	0.0346		0.5120	0.5120		0.5028	0.5028	0.0000	3,294.5320	3,294.5320	0.3582		3,303.4865
Total	**1.4241**	**12.2306**	**20.2948**	**0.0346**		**0.5120**	**0.5120**		**0.5028**	**0.5028**	**0.0000**	**3,294.5320**	**3,294.5320**	**0.3582**		**3,303.4865**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0000e-004	0.0183	5.9200e-003	8.0000e-005	1.7800e-003	5.0000e-005	1.8200e-003	4.9000e-004	4.0000e-005	5.3000e-004		8.2634	8.2634	3.3000e-004		8.2717
Vendor	8.1200e-003	0.3366	0.0815	1.0300e-003	0.0270	5.3000e-004	0.0275	7.7600e-003	5.0000e-004	8.2600e-003		109.4924	109.4924	3.6500e-003		109.5836
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0299**	**0.3677**	**0.2443**	**1.6200e-003**	**0.0945**	**9.8000e-004**	**0.0954**	**0.0257**	**9.1000e-004**	**0.0266**		**168.5234**	**168.5234**	**5.2200e-003**		**168.6539**

3.5 Improvements to check dam - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5609	12.9502	19.5244	0.0341		0.5524	0.5524		0.5466	0.5466		3,217.2311	3,217.2311	0.2212		3,222.7608
Total	**1.5609**	**12.9502**	**19.5244**	**0.0341**		**0.5524**	**0.5524**		**0.5466**	**0.5466**		**3,217.2311**	**3,217.2311**	**0.2212**		**3,222.7608**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.5000e-004	0.0238	7.7000e-003	1.0000e-004	2.3100e-003	6.0000e-005	2.3700e-003	6.3000e-004	6.0000e-005	6.9000e-004		10.7424	10.7424	4.3000e-004		10.7532

Vendor	8.1200e-003	0.3366	0.0815	1.0300e-003	0.0270	5.3000e-004	0.0275	7.7600e-003	5.0000e-004	8.2600e-003		109.4924	109.4924	3.6500e-003		109.5836
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0301**	**0.3732**	**0.2461**	**1.6400e-003**	**0.0950**	**9.9000e-004**	**0.0960**	**0.0258**	**9.3000e-004**	**0.0268**		**171.0024**	**171.0024**	**5.3200e-003**		**171.1354**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5609	12.9502	19.5244	0.0341		0.5524	0.5524		0.5466	0.5466	0.0000	3,217.2311	3,217.2311	0.2212		3,222.7608
Total	**1.5609**	**12.9502**	**19.5244**	**0.0341**		**0.5524**	**0.5524**		**0.5466**	**0.5466**	**0.0000**	**3,217.2311**	**3,217.2311**	**0.2212**		**3,222.7608**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.5000e-004	0.0238	7.7000e-003	1.0000e-004	2.3100e-003	6.0000e-005	2.3700e-003	6.3000e-004	6.0000e-005	6.9000e-004		10.7424	10.7424	4.3000e-004		10.7532
Vendor	8.1200e-003	0.3366	0.0815	1.0300e-003	0.0270	5.3000e-004	0.0275	7.7600e-003	5.0000e-004	8.2600e-003		109.4924	109.4924	3.6500e-003		109.5836
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0301**	**0.3732**	**0.2461**	**1.6400e-003**	**0.0950**	**9.9000e-004**	**0.0960**	**0.0258**	**9.3000e-004**	**0.0268**		**171.0024**	**171.0024**	**5.3200e-003**		**171.1354**

3.6 Fish passage upgrades - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5736	13.6114	22.2929	0.0377		0.5834	0.5834		0.5685	0.5685		3,593.8445	3,593.8445	0.4550		3,605.2190
Total	**1.5736**	**13.6114**	**22.2929**	**0.0377**		**0.5834**	**0.5834**		**0.5685**	**0.5685**		**3,593.8445**	**3,593.8445**	**0.4550**		**3,605.2190**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.2000e-004	0.0264	8.5600e-003	1.1000e-004	2.5700e-003	7.0000e-005	2.6300e-003	7.0000e-004	6.0000e-005	7.7000e-004		11.9360	11.9360	4.8000e-004		11.9480
Vendor	8.1200e-003	0.3366	0.0815	1.0300e-003	0.0270	5.3000e-004	0.0275	7.7600e-003	5.0000e-004	8.2600e-003		109.4924	109.4924	3.6500e-003		109.5836
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0302**	**0.3758**	**0.2470**	**1.6500e-003**	**0.0953**	**1.0000e-003**	**0.0963**	**0.0259**	**9.3000e-004**	**0.0268**		**172.1960**	**172.1960**	**5.3700e-003**		**172.3302**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5736	13.6114	22.2929	0.0377		0.5834	0.5834		0.5685	0.5685	0.0000	3,593.8445	3,593.8445	0.4550		3,605.2190
Total	**1.5736**	**13.6114**	**22.2929**	**0.0377**		**0.5834**	**0.5834**		**0.5685**	**0.5685**	**0.0000**	**3,593.8445**	**3,593.8445**	**0.4550**		**3,605.2190**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.2000e-004	0.0264	8.5600e-003	1.1000e-004	2.5700e-003	7.0000e-005	2.6300e-003	7.0000e-004	6.0000e-005	7.7000e-004		11.9360	11.9360	4.8000e-004		11.9480
Vendor	8.1200e-003	0.3366	0.0815	1.0300e-003	0.0270	5.3000e-004	0.0275	7.7600e-003	5.0000e-004	8.2600e-003		109.4924	109.4924	3.6500e-003		109.5836
Worker	0.0213	0.0128	0.1570	5.1000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		50.7676	50.7676	1.2400e-003		50.7986
Total	**0.0302**	**0.3758**	**0.2470**	**1.6500e-003**	**0.0953**	**1.0000e-003**	**0.0963**	**0.0259**	**9.3000e-004**	**0.0268**		**172.1960**	**172.1960**	**5.3700e-003**		**172.3302**

3.7 Site cleanup and testing - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1671	1.2217	3.2594	5.1700e-003		0.0599	0.0599		0.0551	0.0551		500.3379	500.3379	0.1618		504.3834
Total	**0.1671**	**1.2217**	**3.2594**	**5.1700e-003**		**0.0599**	**0.0599**		**0.0551**	**0.0551**		**500.3379**	**500.3379**	**0.1618**		**504.3834**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.5000e-004	0.0274	8.8800e-003	1.2000e-004	2.6700e-003	7.0000e-005	2.7300e-003	7.3000e-004	7.0000e-005	7.9000e-004		12.3951	12.3951	5.0000e-004		12.4075
Vendor	6.0900e-003	0.2525	0.0611	7.7000e-004	0.0202	3.9000e-004	0.0206	5.8200e-003	3.8000e-004	6.1900e-003		82.1193	82.1193	2.7400e-003		82.1877
Worker	0.0160	9.5700e-003	0.1177	3.8000e-004	0.0493	3.0000e-004	0.0496	0.0131	2.8000e-004	0.0134		38.0757	38.0757	9.3000e-004		38.0990
Total	**0.0228**	**0.2895**	**0.1877**	**1.2700e-003**	**0.0722**	**7.6000e-004**	**0.0729**	**0.0196**	**7.3000e-004**	**0.0203**		**132.5901**	**132.5901**	**4.1700e-003**		**132.6942**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1671	1.2217	3.2594	5.1700e-003		0.0599	0.0599		0.0551	0.0551	0.0000	500.3379	500.3379	0.1618		504.3834
Total	**0.1671**	**1.2217**	**3.2594**	**5.1700e-003**		**0.0599**	**0.0599**		**0.0551**	**0.0551**	**0.0000**	**500.3379**	**500.3379**	**0.1618**		**504.3834**

Mitigated Construction Off-Site

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

Hauling	7.5000e-004	0.0274	8.8800e-003	1.2000e-004	2.6700e-003	7.0000e-005	2.7300e-003	7.3000e-004	7.0000e-005	7.9000e-004		12.3951	12.3951	5.0000e-004		12.4075
Vendor	6.0900e-003	0.2525	0.0611	7.7000e-004	0.0202	3.9000e-004	0.0206	5.8200e-003	3.8000e-004	6.1900e-003		82.1193	82.1193	2.7400e-003		82.1877
Worker	0.0160	9.5700e-003	0.1177	3.8000e-004	0.0493	3.0000e-004	0.0496	0.0131	2.8000e-004	0.0134		38.0757	38.0757	9.3000e-004		38.0990
Total	**0.0228**	**0.2895**	**0.1877**	**1.2700e-003**	**0.0722**	**7.6000e-004**	**0.0729**	**0.0196**	**7.3000e-004**	**0.0203**		**132.5901**	**132.5901**	**4.1700e-003**		**132.6942**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.599608	0.024515	0.205520	0.108091	0.013987	0.004134	0.021227	0.013186	0.001229	0.001862	0.004978	0.000953	0.000710

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Unmitigated	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Tait Diversion

Santa Cruz County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2029
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Tait diversion improvement construction

Land Use - Surrogate land use for Tait diversion facility improvements

Construction Phase - Construction schedule based on City input

Off-road Equipment - Equipment based on City input

Trips and VMT - Construction vehicle information based on City input

Grading - Assumed 0.5 acre would be disturbed and 144 CY material exported

Vehicle Trips - Modeling construction only

Area Coating - Modeling construction only

Energy Use - Modeling construction only

Water And Wastewater - Modeling construction only

Solid Waste - Modeling construction only

Construction Off-road Equipment Mitigation - Water exposed area 2x per day to represent City Standard Construction Practices

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	1000	0
tblAreaCoating	Area_Nonresidential_Interior	3000	0
tblConstructionPhase	NumDays	100.00	45.00
tblConstructionPhase	NumDays	100.00	39.00
tblConstructionPhase	NumDays	100.00	15.00
tblConstructionPhase	NumDays	100.00	27.00
tblConstructionPhase	NumDays	100.00	13.00
tblConstructionPhase	NumDays	1.00	16.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblGrading	AcresOfGrading	0.00	0.50
tblGrading	MaterialExported	0.00	144.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblSolidWaste	SolidWasteGenerationRate	2.48	0.00
tblTripsAndVMT	HaulingTripNumber	18.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	HaulingTripNumber	0.00	4.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	WorkerTripNumber	10.00	8.00

tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	8.00
tblTripsAndVMT	WorkerTripNumber	1.00	6.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	IndoorWaterUseRate	462,500.00	0.00

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					
2028	3.0520	25.9301	40.3290	0.0719	0.1895	1.0663	1.2558	0.0515	1.0514	1.1029	0.0000	6,841.4835	6,841.4835	0.5903	0.0000	6,856.2406
Maximum	**3.0520**	**25.9301**	**40.3290**	**0.0719**	**0.1895**	**1.0663**	**1.2558**	**0.0515**	**1.0514**	**1.1029**	**0.0000**	**6,841.4835**	**6,841.4835**	**0.5903**	**0.0000**	**6,856.2406**

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					

2028	3.0520	25.9301	40.3290	0.0719	0.1895	1.0663	1.2558	0.0515	1.0514	1.1029	0.0000	6,841.4835	6,841.4835	0.5903	0.0000	6,856.2406
Maximum	**3.0520**	**25.9301**	**40.3290**	**0.0719**	**0.1895**	**1.0663**	**1.2558**	**0.0515**	**1.0514**	**1.1029**	**0.0000**	**6,841.4835**	**6,841.4835**	**0.5903**	**0.0000**	**6,856.2406**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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
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
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

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	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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

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
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**0.0000**	**4.7000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/15/2028	6/5/2028	5	16	
2	Intake design upgrades	Building Construction	6/6/2028	8/7/2028	5	45	
3	Hydraulic modifications	Building Construction	8/8/2028	10/1/2028	5	39	
4	Improvements to check dam	Building Construction	10/1/2028	10/20/2028	5	15	
5	Fish passage upgrades	Building Construction	10/21/2028	11/28/2028	5	27	
6	Site cleanup and testing	Building Construction	11/29/2028	12/15/2028	5	13	

Acres of Grading (Site Preparation Phase): 0.5

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Generator Sets	1	8.00	84	0.74
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Pumps	1	24.00	84	0.74
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Intake design upgrades	Air Compressors	1	8.00	78	0.48

Intake design upgrades	Cement and Mortar Mixers	1	8.00	9	0.56
Intake design upgrades	Cranes	1	8.00	231	0.29
Intake design upgrades	Forklifts	0	0.00	89	0.20
Intake design upgrades	Generator Sets	1	8.00	84	0.74
Intake design upgrades	Pumps	1	24.00	84	0.74
Intake design upgrades	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Hydraulic modifications	Cranes	0	0.00	231	0.29
Hydraulic modifications	Excavators	1	8.00	158	0.38
Hydraulic modifications	Forklifts	0	0.00	89	0.20
Hydraulic modifications	Generator Sets	1	8.00	84	0.74
Hydraulic modifications	Pumps	1	24.00	84	0.74
Hydraulic modifications	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Improvements to check dam	Air Compressors	1	8.00	78	0.48
Improvements to check dam	Cement and Mortar Mixers	1	8.00	9	0.56
Improvements to check dam	Cranes	0	0.00	231	0.29
Improvements to check dam	Forklifts	0	0.00	89	0.20
Improvements to check dam	Generator Sets	1	8.00	84	0.74
Improvements to check dam	Other Construction Equipment	1	4.00	172	0.42
Improvements to check dam	Pumps	1	24.00	84	0.74
Improvements to check dam	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Fish passage upgrades	Cranes	0	0.00	231	0.29
Fish passage upgrades	Excavators	1	8.00	158	0.38
Fish passage upgrades	Forklifts	0	0.00	89	0.20
Fish passage upgrades	Generator Sets	1	8.00	84	0.74
Fish passage upgrades	Other Construction Equipment	1	4.00	172	0.42
Fish passage upgrades	Pumps	1	24.00	84	0.74
Fish passage upgrades	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site cleanup and testing	Cranes	0	0.00	231	0.29
Site cleanup and testing	Excavators	1	8.00	158	0.38
Site cleanup and testing	Forklifts	0	0.00	89	0.20
Site cleanup and testing	Tractors/Loaders/Backhoes	0	0.00	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
Site Preparation	4	8.00	4.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Intake design upgrades	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Hydraulic modifications	4	8.00	4.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Improvements to check dam	5	8.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fish passage upgrades	5	8.00	4.00	4.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site cleanup and testing	1	6.00	3.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0339	0.0000	0.0339	3.7000e-003	0.0000	3.7000e-003			0.0000			0.0000
Off-Road	1.4241	12.2306	20.2948	0.0346		0.5120	0.5120		0.5028	0.5028		3,294.5320	3,294.5320	0.3582		3,303.4865
Total	**1.4241**	**12.2306**	**20.2948**	**0.0346**	**0.0339**	**0.5120**	**0.5459**	**3.7000e-003**	**0.5028**	**0.5065**		**3,294.5320**	**3,294.5320**	**0.3582**		**3,303.4865**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2500e-003	0.0452	0.0151	1.9000e-004	4.3300e-003	1.2000e-004	4.4500e-003	1.1800e-003	1.1000e-004	1.2900e-003		19.8597	19.8597	8.3000e-004		19.8806
Vendor	8.6200e-003	0.3375	0.0916	1.0100e-003	0.0270	5.5000e-004	0.0275	7.7600e-003	5.3000e-004	8.2800e-003		107.1227	107.1227	3.8800e-003		107.2197
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0342**	**0.3985**	**0.2629**	**1.6900e-003**	**0.0970**	**1.0700e-003**	**0.0981**	**0.0264**	**1.0100e-003**	**0.0274**		**175.3502**	**175.3502**	**5.8900e-003**		**175.4977**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0153	0.0000	0.0153	1.6600e-003	0.0000	1.6600e-003			0.0000			0.0000
Off-Road	1.4241	12.2306	20.2948	0.0346		0.5120	0.5120		0.5028	0.5028	0.0000	3,294.5320	3,294.5320	0.3582		3,303.4865
Total	**1.4241**	**12.2306**	**20.2948**	**0.0346**	**0.0153**	**0.5120**	**0.5272**	**1.6600e-003**	**0.5028**	**0.5045**	**0.0000**	**3,294.5320**	**3,294.5320**	**0.3582**		**3,303.4865**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2500e-003	0.0452	0.0151	1.9000e-004	4.3300e-003	1.2000e-004	4.4500e-003	1.1800e-003	1.1000e-004	1.2900e-003		19.8597	19.8597	8.3000e-004		19.8806
Vendor	8.6200e-003	0.3375	0.0916	1.0100e-003	0.0270	5.5000e-004	0.0275	7.7600e-003	5.3000e-004	8.2800e-003		107.1227	107.1227	3.8800e-003		107.2197

Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0342**	**0.3985**	**0.2629**	**1.6900e-003**	**0.0970**	**1.0700e-003**	**0.0981**	**0.0264**	**1.0100e-003**	**0.0274**		**175.3502**	**175.3502**	**5.8900e-003**		**175.4977**

3.3 Intake design upgrades - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7242	14.7373	19.2627	0.0368		0.6156	0.6156		0.6048	0.6048		3,476.7449	3,476.7449	0.3051		3,484.3729
Total	**1.7242**	**14.7373**	**19.2627**	**0.0368**		**0.6156**	**0.6156**		**0.6048**	**0.6048**		**3,476.7449**	**3,476.7449**	**0.3051**		**3,484.3729**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2000e-004	8.0300e-003	2.6800e-003	3.0000e-005	1.3600e-003	2.0000e-005	1.3800e-003	3.5000e-004	2.0000e-005	3.7000e-004		3.5306	3.5306	1.5000e-004		3.5343
Vendor	8.6200e-003	0.3375	0.0916	1.0100e-003	0.0463	5.5000e-004	0.0468	0.0125	5.3000e-004	0.0130		107.1227	107.1227	3.8800e-003		107.2197
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.1228	4.0000e-004	0.1232	0.0315	3.7000e-004	0.0318		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0331**	**0.3614**	**0.2505**	**1.5300e-003**	**0.1705**	**9.7000e-004**	**0.1714**	**0.0443**	**9.2000e-004**	**0.0452**		**159.0211**	**159.0211**	**5.2100e-003**		**159.1514**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7242	14.7373	19.2627	0.0368		0.6156	0.6156		0.6048	0.6048	0.0000	3,476.7449	3,476.7449	0.3051		3,484.3729
Total	**1.7242**	**14.7373**	**19.2627**	**0.0368**		**0.6156**	**0.6156**		**0.6048**	**0.6048**	**0.0000**	**3,476.7449**	**3,476.7449**	**0.3051**		**3,484.3729**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.2000e-004	8.0300e-003	2.6800e-003	3.0000e-005	1.3600e-003	2.0000e-005	1.3800e-003	3.5000e-004	2.0000e-005	3.7000e-004		3.5306	3.5306	1.5000e-004		3.5343
Vendor	8.6200e-003	0.3375	0.0916	1.0100e-003	0.0463	5.5000e-004	0.0468	0.0125	5.3000e-004	0.0130		107.1227	107.1227	3.8800e-003		107.2197
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.1228	4.0000e-004	0.1232	0.0315	3.7000e-004	0.0318		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0331**	**0.3614**	**0.2505**	**1.5300e-003**	**0.1705**	**9.7000e-004**	**0.1714**	**0.0443**	**9.2000e-004**	**0.0452**		**159.0211**	**159.0211**	**5.2100e-003**		**159.1514**

3.4 Hydraulic modifications - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4241	12.2306	20.2948	0.0346		0.5120	0.5120		0.5028	0.5028		3,294.5320	3,294.5320	0.3582		3,303.4865

Total	**1.4241**	**12.2306**	**20.2948**	**0.0346**		**0.5120**	**0.5120**		**0.5028**	**0.5028**		**3,294.5320**	**3,294.5320**	**0.3582**		**3,303.4865**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.1000e-004	0.0185	6.1800e-003	8.0000e-005	1.7800e-003	5.0000e-005	1.8200e-003	4.9000e-004	5.0000e-005	5.3000e-004		8.1476	8.1476	3.4000e-004		8.1561
Vendor	8.6200e-003	0.3375	0.0916	1.0100e-003	0.0270	5.5000e-004	0.0275	7.7600e-003	5.3000e-004	8.2800e-003		107.1227	107.1227	3.8800e-003		107.2197
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0334**	**0.3719**	**0.2540**	**1.5800e-003**	**0.0945**	**1.0000e-003**	**0.0955**	**0.0257**	**9.5000e-004**	**0.0266**		**163.6381**	**163.6381**	**5.4000e-003**		**163.7732**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.4241	12.2306	20.2948	0.0346		0.5120	0.5120		0.5028	0.5028	0.0000	3,294.5320	3,294.5320	0.3582		3,303.4865
Total	**1.4241**	**12.2306**	**20.2948**	**0.0346**		**0.5120**	**0.5120**		**0.5028**	**0.5028**	**0.0000**	**3,294.5320**	**3,294.5320**	**0.3582**		**3,303.4865**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.1000e-004	0.0185	6.1800e-003	8.0000e-005	1.7800e-003	5.0000e-005	1.8200e-003	4.9000e-004	5.0000e-005	5.3000e-004		8.1476	8.1476	3.4000e-004		8.1561
Vendor	8.6200e-003	0.3375	0.0916	1.0100e-003	0.0270	5.5000e-004	0.0275	7.7600e-003	5.3000e-004	8.2800e-003		107.1227	107.1227	3.8800e-003		107.2197
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0334**	**0.3719**	**0.2540**	**1.5800e-003**	**0.0945**	**1.0000e-003**	**0.0955**	**0.0257**	**9.5000e-004**	**0.0266**		**163.6381**	**163.6381**	**5.4000e-003**		**163.7732**

3.5 Improvements to check dam - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5609	12.9502	19.5244	0.0341		0.5524	0.5524		0.5466	0.5466		3,217.2311	3,217.2311	0.2212		3,222.7608
Total	**1.5609**	**12.9502**	**19.5244**	**0.0341**		**0.5524**	**0.5524**		**0.5466**	**0.5466**		**3,217.2311**	**3,217.2311**	**0.2212**		**3,222.7608**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.7000e-004	0.0241	8.0400e-003	1.0000e-004	2.3100e-003	6.0000e-005	2.3700e-003	6.3000e-004	6.0000e-005	6.9000e-004		10.5919	10.5919	4.4000e-004		10.6030

Vendor	8.6200e-003	0.3375	0.0916	1.0100e-003	0.0270	5.5000e-004	0.0275	7.7600e-003	5.3000e-004	8.2800e-003		107.1227	107.1227	3.8800e-003		107.2197
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0336**	**0.3775**	**0.2559**	**1.6000e-003**	**0.0950**	**1.0100e-003**	**0.0960**	**0.0258**	**9.6000e-004**	**0.0268**		**166.0824**	**166.0824**	**5.5000e-003**		**166.2201**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5609	12.9502	19.5244	0.0341		0.5524	0.5524		0.5466	0.5466	0.0000	3,217.2311	3,217.2311	0.2212		3,222.7608
Total	**1.5609**	**12.9502**	**19.5244**	**0.0341**		**0.5524**	**0.5524**		**0.5466**	**0.5466**	**0.0000**	**3,217.2311**	**3,217.2311**	**0.2212**		**3,222.7608**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.7000e-004	0.0241	8.0400e-003	1.0000e-004	2.3100e-003	6.0000e-005	2.3700e-003	6.3000e-004	6.0000e-005	6.9000e-004		10.5919	10.5919	4.4000e-004		10.6030
Vendor	8.6200e-003	0.3375	0.0916	1.0100e-003	0.0270	5.5000e-004	0.0275	7.7600e-003	5.3000e-004	8.2800e-003		107.1227	107.1227	3.8800e-003		107.2197
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0336**	**0.3775**	**0.2559**	**1.6000e-003**	**0.0950**	**1.0100e-003**	**0.0960**	**0.0258**	**9.6000e-004**	**0.0268**		**166.0824**	**166.0824**	**5.5000e-003**		**166.2201**

3.6 Fish passage upgrades - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5736	13.6114	22.2929	0.0377		0.5834	0.5834		0.5685	0.5685		3,593.8445	3,593.8445	0.4550		3,605.2190
Total	**1.5736**	**13.6114**	**22.2929**	**0.0377**		**0.5834**	**0.5834**		**0.5685**	**0.5685**		**3,593.8445**	**3,593.8445**	**0.4550**		**3,605.2190**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.4000e-004	0.0268	8.9300e-003	1.1000e-004	2.5700e-003	7.0000e-005	2.6400e-003	7.0000e-004	7.0000e-005	7.7000e-004		11.7687	11.7687	4.9000e-004		11.7811
Vendor	8.6200e-003	0.3375	0.0916	1.0100e-003	0.0270	5.5000e-004	0.0275	7.7600e-003	5.3000e-004	8.2800e-003		107.1227	107.1227	3.8800e-003		107.2197
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0337**	**0.3801**	**0.2568**	**1.6100e-003**	**0.0953**	**1.0200e-003**	**0.0963**	**0.0259**	**9.7000e-004**	**0.0269**		**167.2592**	**167.2592**	**5.5500e-003**		**167.3982**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5736	13.6114	22.2929	0.0377		0.5834	0.5834		0.5685	0.5685	0.0000	3,593.8445	3,593.8445	0.4550		3,605.2190
Total	**1.5736**	**13.6114**	**22.2929**	**0.0377**		**0.5834**	**0.5834**		**0.5685**	**0.5685**	**0.0000**	**3,593.8445**	**3,593.8445**	**0.4550**		**3,605.2190**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.4000e-004	0.0268	8.9300e-003	1.1000e-004	2.5700e-003	7.0000e-005	2.6400e-003	7.0000e-004	7.0000e-005	7.7000e-004		11.7687	11.7687	4.9000e-004		11.7811
Vendor	8.6200e-003	0.3375	0.0916	1.0100e-003	0.0270	5.5000e-004	0.0275	7.7600e-003	5.3000e-004	8.2800e-003		107.1227	107.1227	3.8800e-003		107.2197
Worker	0.0243	0.0159	0.1563	4.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.7000e-004	0.0178		48.3678	48.3678	1.1800e-003		48.3974
Total	**0.0337**	**0.3801**	**0.2568**	**1.6100e-003**	**0.0953**	**1.0200e-003**	**0.0963**	**0.0259**	**9.7000e-004**	**0.0269**		**167.2592**	**167.2592**	**5.5500e-003**		**167.3982**

3.7 Site cleanup and testing - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1671	1.2217	3.2594	5.1700e-003		0.0599	0.0599		0.0551	0.0551		500.3379	500.3379	0.1618		504.3834
Total	**0.1671**	**1.2217**	**3.2594**	**5.1700e-003**		**0.0599**	**0.0599**		**0.0551**	**0.0551**		**500.3379**	**500.3379**	**0.1618**		**504.3834**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.7000e-004	0.0278	9.2800e-003	1.1000e-004	2.6700e-003	7.0000e-005	2.7400e-003	7.3000e-004	7.0000e-005	8.0000e-004		12.2214	12.2214	5.1000e-004		12.2342
Vendor	6.4700e-003	0.2531	0.0687	7.6000e-004	0.0202	4.1000e-004	0.0206	5.8200e-003	4.0000e-004	6.2100e-003		80.3420	80.3420	2.9100e-003		80.4148
Worker	0.0182	0.0119	0.1172	3.6000e-004	0.0493	3.0000e-004	0.0496	0.0131	2.8000e-004	0.0134		36.2759	36.2759	8.9000e-004		36.2981
Total	**0.0255**	**0.2928**	**0.1952**	**1.2300e-003**	**0.0722**	**7.8000e-004**	**0.0730**	**0.0196**	**7.5000e-004**	**0.0204**		**128.8393**	**128.8393**	**4.3100e-003**		**128.9470**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1671	1.2217	3.2594	5.1700e-003		0.0599	0.0599		0.0551	0.0551	0.0000	500.3379	500.3379	0.1618		504.3834
Total	**0.1671**	**1.2217**	**3.2594**	**5.1700e-003**		**0.0599**	**0.0599**		**0.0551**	**0.0551**	**0.0000**	**500.3379**	**500.3379**	**0.1618**		**504.3834**

Mitigated Construction Off-Site

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

Hauling	7.7000e-004	0.0278	9.2800e-003	1.1000e-004	2.6700e-003	7.0000e-005	2.7400e-003	7.3000e-004	7.0000e-005	8.0000e-004		12.2214	12.2214	5.1000e-004		12.2342
Vendor	6.4700e-003	0.2531	0.0687	7.6000e-004	0.0202	4.1000e-004	0.0206	5.8200e-003	4.0000e-004	6.2100e-003		80.3420	80.3420	2.9100e-003		80.4148
Worker	0.0182	0.0119	0.1172	3.6000e-004	0.0493	3.0000e-004	0.0496	0.0131	2.8000e-004	0.0134		36.2759	36.2759	8.9000e-004		36.2981
Total	**0.0255**	**0.2928**	**0.1952**	**1.2300e-003**	**0.0722**	**7.8000e-004**	**0.0730**	**0.0196**	**7.5000e-004**	**0.0204**		**128.8393**	**128.8393**	**4.3100e-003**		**128.9470**

4.0 Operational Detail - Mobile

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

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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	0.599608	0.024515	0.205520	0.108091	0.013987	0.004134	0.021227	0.013186	0.001229	0.001862	0.004978	0.000953	0.000710

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Unmitigated	0.0428	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-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	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.4000e-004	4.4000e-004	0.0000		4.7000e-004
Total	**0.0428**	**0.0000**	**2.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**4.4000e-004**	**4.4000e-004**	**0.0000**		**4.7000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Operational Staff Increase
Santa Cruz County, 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

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Increased staff for Agreed Flows implementation and Other City ASR

Land Use - Modeling on-road vehicles for operations only

Construction Phase - Modeling on-road vehicles for operations only

Off-road Equipment - Modeling on-road vehicles for operations only

Off-road Equipment - Equipment based on City input

Trips and VMT - Modeling on-road vehicles for operations only

Grading - Modeling on-road vehicles for operations only

Architectural Coating - Modeling on-road vehicles for operations only

Vehicle Trips - 3 new staff total for Agreed Flows implementation and Other ASR Facilities, as well as 1 new daily trip for existing staff for Beltz/ASR maintenance

Consumer Products - Modeling on-road vehicles for operations only

Area Coating - Modeling on-road vehicles for operations only

Landscape Equipment - Modeling on-road vehicles for operations only

Energy Use - Modeling on-road vehicles for operations only

Water And Wastewater - Modeling on-road vehicles for operations only

Solid Waste - Modeling on-road vehicles for operations only

Fleet Mix - Light duty trucks assumed for vehicles

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblFleetMix	HHD	0.01	0.00
tblFleetMix	LDA	0.59	0.00
tblFleetMix	LDT1	0.03	0.50
tblFleetMix	LDT2	0.21	0.50
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.4270e-003	0.00
tblFleetMix	MCY	5.3020e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.5400e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.2290e-003	0.00
tblFleetMix	SBUS	9.8100e-004	0.00

tblFleetMix	UBUS	2.2120e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	15.00
tblVehicleTrips	CW_TTP	59.00	100.00
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	8.00
tblVehicleTrips	SU_TR	0.68	8.00
tblVehicleTrips	WD_TR	6.97	8.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

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					
2025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated 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					
2025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	0.0000	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	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	2.8800e-003	5.8200e-003	0.0531	1.5000e-004	0.0160	1.2000e-004	0.0161	4.2500e-003	1.1000e-004	4.3600e-003	0.0000	13.3422	13.3422	4.2000e-004	0.0000	13.3528
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	**2.8800e-003**	**5.8200e-003**	**0.0531**	**1.5000e-004**	**0.0160**	**1.2000e-004**	**0.0161**	**4.2500e-003**	**1.1000e-004**	**4.3600e-003**	**0.0000**	**13.3422**	**13.3422**	**4.2000e-004**	**0.0000**	**13.3528**

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	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	2.8800e-003	5.8200e-003	0.0531	1.5000e-004	0.0160	1.2000e-004	0.0161	4.2500e-003	1.1000e-004	4.3600e-003	0.0000	13.3422	13.3422	4.2000e-004	0.0000	13.3528
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	**2.8800e-003**	**5.8200e-003**	**0.0531**	**1.5000e-004**	**0.0160**	**1.2000e-004**	**0.0161**	**4.2500e-003**	**1.1000e-004**	**4.3600e-003**	**0.0000**	**13.3422**	**13.3422**	**4.2000e-004**	**0.0000**	**13.3528**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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 coatings	Architectural Coating	1/6/2025	1/10/2025	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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural coatings	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural coatings	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural coatings - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

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	2.8800e-003	5.8200e-003	0.0531	1.5000e-004	0.0160	1.2000e-004	0.0161	4.2500e-003	1.1000e-004	4.3600e-003	0.0000	13.3422	13.3422	4.2000e-004	0.0000	13.3528
Unmitigated	2.8800e-003	5.8200e-003	0.0531	1.5000e-004	0.0160	1.2000e-004	0.0161	4.2500e-003	1.1000e-004	4.3600e-003	0.0000	13.3422	13.3422	4.2000e-004	0.0000	13.3528

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	8.00	8.00	8.00	43,680	43,680
Total	8.00	8.00	8.00	43,680	43,680

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	15.00	7.30	7.30	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.0000e-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	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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					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	3.0000e-005
Total	**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**	**3.0000e-005**

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	0.0000					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	3.0000e-005
Total	**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**	**3.0000e-005**

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Operational Staff Increase
Santa Cruz County, 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

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Increased staff for Agreed Flows implementation and Other City ASR

Land Use - Modeling on-road vehicles for operations only

Construction Phase - Modeling on-road vehicles for operations only

Off-road Equipment - Modeling on-road vehicles for operations only

Off-road Equipment - Equipment based on City input

Trips and VMT - Modeling on-road vehicles for operations only

Grading - Modeling on-road vehicles for operations only

Architectural Coating - Modeling on-road vehicles for operations only

Vehicle Trips - 3 new staff total for Agreed Flows implementation and Other ASR Facilities, as well as 1 new daily trip for existing staff for Beltz/ASR maintenance

Consumer Products - Modeling on-road vehicles for operations only

Area Coating - Modeling on-road vehicles for operations only

Landscape Equipment - Modeling on-road vehicles for operations only

Energy Use - Modeling on-road vehicles for operations only

Water And Wastewater - Modeling on-road vehicles for operations only

Solid Waste - Modeling on-road vehicles for operations only

Fleet Mix - Light duty trucks assumed for vehicles

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblFleetMix	HHD	0.01	0.00
tblFleetMix	LDA	0.59	0.00
tblFleetMix	LDT1	0.03	0.50
tblFleetMix	LDT2	0.21	0.50
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.4270e-003	0.00
tblFleetMix	MCY	5.3020e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.5400e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.2290e-003	0.00
tblFleetMix	SBUS	9.8100e-004	0.00

tblFleetMix	UBUS	2.2120e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	15.00
tblVehicleTrips	CW_TTP	59.00	100.00
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	8.00
tblVehicleTrips	SU_TR	0.68	8.00
tblVehicleTrips	WD_TR	6.97	8.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

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					
2025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated 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					
2025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	0.0175	0.0280	0.3059	8.5000e-004	0.0912	6.6000e-004	0.0918	0.0242	6.1000e-004	0.0248		84.8242	84.8242	2.6900e-003		84.8914
Total	**0.0175**	**0.0280**	**0.3060**	**8.5000e-004**	**0.0912**	**6.6000e-004**	**0.0918**	**0.0242**	**6.1000e-004**	**0.0248**		**84.8244**	**84.8244**	**2.6900e-003**	**0.0000**	**84.8917**

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	1.0000e-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	0.0175	0.0280	0.3059	8.5000e-004	0.0912	6.6000e-004	0.0918	0.0242	6.1000e-004	0.0248		84.8242	84.8242	2.6900e-003		84.8914
Total	**0.0175**	**0.0280**	**0.3060**	**8.5000e-004**	**0.0912**	**6.6000e-004**	**0.0918**	**0.0242**	**6.1000e-004**	**0.0248**		**84.8244**	**84.8244**	**2.6900e-003**	**0.0000**	**84.8917**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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 coatings	Architectural Coating	1/6/2025	1/10/2025	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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural coatings	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class

Architectural coatings	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural coatings - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

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	0.0175	0.0280	0.3059	8.5000e-004	0.0912	6.6000e-004	0.0918	0.0242	6.1000e-004	0.0248		84.8242	84.8242	2.6900e-003		84.8914
Unmitigated	0.0175	0.0280	0.3059	8.5000e-004	0.0912	6.6000e-004	0.0918	0.0242	6.1000e-004	0.0248		84.8242	84.8242	2.6900e-003		84.8914

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	8.00	8.00	8.00	43,680	43,680
Total	8.00	8.00	8.00	43,680	43,680

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	15.00	7.30	7.30	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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

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	0.0000					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
Total	**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**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SCWR - Operational Staff Increase - Santa Cruz County, Winter

SCWR - Operational Staff Increase

Santa Cruz County, 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

Urbanization	Urban	**Wind Speed (m/s)**	1.8	**Precipitation Freq (Days)**	61
Climate Zone	5			**Operational Year**	2026
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Increased staff for Agreed Flows implementation and Other City ASR

Land Use - Modeling on-road vehicles for operations only

Construction Phase - Modeling on-road vehicles for operations only

Off-road Equipment - Modeling on-road vehicles for operations only

Off-road Equipment - Equipment based on City input

Trips and VMT - Modeling on-road vehicles for operations only

Grading - Modeling on-road vehicles for operations only

Architectural Coating - Modeling on-road vehicles for operations only

Vehicle Trips - 3 new staff total for Agreed Flows implementation and Other ASR Facilities, as well as 1 new daily trip for existing staff for Beltz/ASR maintenance

Consumer Products - Modeling on-road vehicles for operations only

Area Coating - Modeling on-road vehicles for operations only

Landscape Equipment - Modeling on-road vehicles for operations only

Energy Use - Modeling on-road vehicles for operations only

Water And Wastewater - Modeling on-road vehicles for operations only

Solid Waste - Modeling on-road vehicles for operations only

Fleet Mix - Light duty trucks assumed for vehicles

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	NT24E	3.36	0.00
tblEnergyUse	NT24NG	6.90	0.00
tblEnergyUse	T24E	1.21	0.00
tblEnergyUse	T24NG	17.85	0.00
tblFleetMix	HHD	0.01	0.00
tblFleetMix	LDA	0.59	0.00
tblFleetMix	LDT1	0.03	0.50
tblFleetMix	LDT2	0.21	0.50
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.4270e-003	0.00
tblFleetMix	MCY	5.3020e-003	0.00
tblFleetMix	MDV	0.11	0.00
tblFleetMix	MH	8.5400e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.2290e-003	0.00
tblFleetMix	SBUS	9.8100e-004	0.00

tblFleetMix	UBUS	2.2120e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	9.50	15.00
tblVehicleTrips	CW_TTP	59.00	100.00
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	8.00
tblVehicleTrips	SU_TR	0.68	8.00
tblVehicleTrips	WD_TR	6.97	8.00
tblWater	IndoorWaterUseRate	231,250.00	0.00

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					
2025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated 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					
2025	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	0.0157	0.0350	0.3022	8.1000e-004	0.0912	6.6000e-004	0.0918	0.0242	6.1000e-004	0.0248		80.8377	80.8377	2.5600e-003		80.9018
Total	**0.0157**	**0.0350**	**0.3023**	**8.1000e-004**	**0.0912**	**6.6000e-004**	**0.0918**	**0.0242**	**6.1000e-004**	**0.0248**		**80.8379**	**80.8379**	**2.5600e-003**	**0.0000**	**80.9020**

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	1.0000e-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	0.0157	0.0350	0.3022	8.1000e-004	0.0912	6.6000e-004	0.0918	0.0242	6.1000e-004	0.0248		80.8377	80.8377	2.5600e-003		80.9018
Total	**0.0157**	**0.0350**	**0.3023**	**8.1000e-004**	**0.0912**	**6.6000e-004**	**0.0918**	**0.0242**	**6.1000e-004**	**0.0248**		**80.8379**	**80.8379**	**2.5600e-003**	**0.0000**	**80.9020**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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 coatings	Architectural Coating	1/6/2025	1/10/2025	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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural coatings	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class

Architectural coatings	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural coatings - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

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	0.0157	0.0350	0.3022	8.1000e-004	0.0912	6.6000e-004	0.0918	0.0242	6.1000e-004	0.0248		80.8377	80.8377	2.5600e-003		80.9018
Unmitigated	0.0157	0.0350	0.3022	8.1000e-004	0.0912	6.6000e-004	0.0918	0.0242	6.1000e-004	0.0248		80.8377	80.8377	2.5600e-003		80.9018

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	8.00	8.00	8.00	43,680	43,680
Total	8.00	8.00	8.00	43,680	43,680

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	15.00	7.30	7.30	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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

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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

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

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	0.0000					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
Total	**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**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Santa Cruz Water Rights Project - Indirect GHG Emissions from Electricity Use (Power Plant Emissions)

Increased Annual Electrical Use: 1,326,350 kWh (kilowatt hours)/year annual average

1,326 mWh (megawatt hours)/year

Indirect GHG gases	Emission Factor lb/mWh	Annual Project Electricity mWh	Annual GHGs metric tons	CO2 Equivalent Factor	Annual CO2 Equivalent Emissions (metric tons)
Carbon Dioxide (CO2)	210	1,326	126.34	1	126.34
Nitrous Oxide (N2O)	0.00617	1,326	0.0037	298	1.11
Methane (CH4)	0.029	1,326	0.0174	25	0.44

Total Indirect GHG Emissions from Operations Increased Electricity Use= 127.88

1. Emission factors for CO2, CH4, and N2O are from the CalEEMod software version 2016.3.2 for PG&E. CO2 was adjusted based PG&E's reported intensity for 2017 which is from the PG&E Corporate Responsibility and Sustainability Report (2019).

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