APPENDIX 11.2

Air Quality/
Greenhouse Gas Emissions/
Energy Data

Bay Bridge

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	14.50	1000sqft	0.33	14,500.00	0
Other Asphalt Surfaces	16.09	1000sqft	0.37	16,085.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor Source: Southern California Edison, 2018 Sustainability Report, dated May 2019.

Land Use -

Construction Phase - Applicant construction schedule.

Off-road Equipment - Per construction questionnaire. Dredge [500 HP], sheeting driver [475 HP], and vibratory hammer pile driver [475 HP] modeled as "Other Construction Equipment".

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = vibratory hammer pile driver

Off-road Equipment - Per construction questionnaire. Vibratory hammer pile driver modeled as "Other Construction Equipment".

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = microtunneling machine

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = vibratory hammer pile driver

Off-road Equipment - Per construction questionnaire.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = vibratory hammer pile driver

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = vibratory hammer pile driver

Demolition -

Trips and VMT -

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Energy Mitigation - % Improvement based on efficiency of 2019 Title 24 Standards compared to 2016 Title 24 Standards.

Grading -

Vehicle Trips - The project would not generate additional vehicle trips above existing conditions.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	107.00
tblConstructionPhase	NumDays	100.00	155.00
tblConstructionPhase	NumDays	10.00	89.00
tblConstructionPhase	NumDays	2.00	260.00
tblGrading	MaterialExported	0.00	3,850.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	118.00
tblOffRoadEquipment	HorsePower	172.00	500.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.05
tblOffRoadEquipment	LoadFactor	0.42	0.05
tblOffRoadEquipment	LoadFactor	0.42	0.05
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	1.00
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
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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	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	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
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
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Pump Station Earthwork & Below Grade Concrete Construction
tblOffRoadEquipment	PhaseName		Pump Station Earthwork & Below Grade Concrete Construction
tblOffRoadEquipment	PhaseName		Pump Station Earthwork & Below Grade Concrete Construction
tblOffRoadEquipment	PhaseName		Pump Station Earthwork & Below Grade Concrete Construction
tblOffRoadEquipment	PhaseName		Pump Station Earthwork & Below Grade Concrete Construction
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay

tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Microtunneling Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Pump Station Above Grade Building Construction including MEP
tblOffRoadEquipment	PhaseName		Pump Station Above Grade Building Construction including MEP
tblOffRoadEquipment	PhaseName		Pump Station Above Grade Building Construction including MEP
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching West of Newport Bay
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tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
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tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Pump Station Demolition

tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Generator and Odor Control Building Construction
tblOffRoadEquipment	UsageHours	1.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
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					
2023	6.6604	62.6830	58.6528	0.1246	0.6524	3.0452	3.6976	0.1858	2.8501	3.0359	0.0000	12,034.0411	12,034.0411	2.9446	0.0000	12,107.6565
2024	31.7925	44.9617	45.6777	0.1083	0.5853	1.9265	2.5118	0.1680	1.8146	1.9826	0.0000	10,450.1778	10,450.1778	2.4490	0.0000	10,511.4033
2025	2.5896	23.5768	26.1878	0.0537	0.5672	0.9969	1.4312	0.1159	0.9413	1.0573	0.0000	5,182.0138	5,182.0138	1.0228	0.0000	5,207.5840
2026	2.5849	23.5680	26.1399	0.0536	0.4343	0.9968	1.4311	0.1159	0.9413	1.0572	0.0000	5,170.2321	5,170.2321	1.0222	0.0000	5,195.7882
Maximum	**31.7925**	**62.6830**	**58.6528**	**0.1246**	**0.6524**	**3.0452**	**3.6976**	**0.1858**	**2.8501**	**3.0359**	**0.0000**	**12,034.0411**	**12,034.0411**	**2.9446**	**0.0000**	**12,107.6565**

2.1 Overall Construction (Maximum Daily Emission)

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	6.6604	62.6830	58.6528	0.1246	0.4856	3.0452	3.5308	0.1361	2.8501	2.9862	0.0000	12,034.0411	12,034.0411	2.9446	0.0000	12,107.6565
2024	31.7925	44.9617	45.6777	0.1083	0.4337	1.9265	2.3602	0.1220	1.8146	1.9367	0.0000	10,450.1778	10,450.1778	2.4490	0.0000	10,511.4032
2025	2.5896	23.5768	26.1878	0.0537	0.3375	0.9969	1.3343	0.0921	0.9413	1.0335	0.0000	5,182.0138	5,182.0138	1.0228	0.0000	5,207.5840
2026	2.5849	23.5680	26.1399	0.0536	0.3375	0.9968	1.3343	0.0921	0.9413	1.0334	0.0000	5,170.2321	5,170.2321	1.0222	0.0000	5,195.7882
Maximum	**31.7925**	**62.6830**	**58.6528**	**0.1246**	**0.4856**	**3.0452**	**3.5308**	**0.1361**	**2.8501**	**2.9862**	**0.0000**	**12,034.0411**	**12,034.0411**	**2.9446**	**0.0000**	**12,107.6565**

	ROG	NOx	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**	**28.80**	**0.00**	**5.64**	**24.46**	**0.00**	**2.01**	**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	0.3313	3.0000e-005	3.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.6900e-003	6.6900e-003	2.0000e-005		7.1300e-003
Energy	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1900e-003	6.1900e-003		6.1900e-003	6.1900e-003		97.6793	97.6793	1.8700e-003	1.7900e-003	98.2598
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	**0.3402**	**0.0814**	**0.0715**	**4.9000e-004**	**0.0000**	**6.2000e-003**	**6.2000e-003**	**0.0000**	**6.2000e-003**	**6.2000e-003**		**97.6860**	**97.6860**	**1.8900e-003**	**1.7900e-003**	**98.2669**

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	0.3313	3.0000e-005	3.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.6900e-003	6.6900e-003	2.0000e-005		7.1300e-003
Energy	7.1500e-003	0.0650	0.0546	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003		77.9939	77.9939	1.4900e-003	1.4300e-003	78.4574
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	**0.3384**	**0.0650**	**0.0577**	**3.9000e-004**	**0.0000**	**4.9500e-003**	**4.9500e-003**	**0.0000**	**4.9500e-003**	**4.9500e-003**		**78.0006**	**78.0006**	**1.5100e-003**	**1.4300e-003**	**78.4645**

	ROG	NOx	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	**0.53**	**20.15**	**19.28**	**20.41**	**0.00**	**20.16**	**20.16**	**0.00**	**20.16**	**20.16**	**0.00**	**20.15**	**20.15**	**20.11**	**20.11**	**20.15**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Force Main Pipeline Trenching East of Newport Bay	Trenching	7/1/2023	12/29/2023	5	130	
2	Microtunneling Only	Trenching	7/1/2023	9/1/2023	5	45	
3	Pump Station Earthwork & Below Grade Concrete Construction	Grading	7/1/2023	6/28/2024	5	260	
4	Dredging Only	Trenching	1/1/2024	6/28/2024	5	130	
5	Force Main Pipeline Trenching West of Newport Bay	Trenching	7/1/2024	9/30/2024	5	66	
6	Pump Station Above Grade Building Construction including MEP	Building Construction	7/1/2024	1/31/2025	5	155	
7	Temporary Gravity Sewer Trenching	Trenching	10/1/2024	12/31/2024	5	66	
8	Pump Station Architectural Coating	Architectural Coating	11/1/2024	11/7/2024	5	5	
9	Pump Station Demolition	Demolition	7/1/2025	10/31/2025	5	89	
10	Generator and Odor Control Building Construction	Building Construction	11/1/2025	3/31/2026	5	107	
11	Permanent Gravity Sewer Trenching	Trenching	11/1/2025	1/31/2026	5	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.37

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 21,750; Non-Residential Outdoor: 7,250; Striped Parking Area: 1,055 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Pump Station Earthwork & Below Grade Concrete Construction	Concrete/Industrial Saws	0	8.00	81	0.73
Pump Station Earthwork & Below Grade Concrete Construction	Cranes	1	6.00	231	0.29
Pump Station Earthwork & Below Grade Concrete Construction	Excavators	1	6.00	158	0.38
Pump Station Earthwork & Below Grade Concrete Construction	Other Construction Equipment	1	6.00	475	0.50
Pump Station Earthwork & Below Grade Concrete Construction	Pumps	3	6.00	84	0.74
Pump Station Earthwork & Below Grade Concrete Construction	Rollers	1	8.00	80	0.38
Pump Station Earthwork & Below Grade Concrete Construction	Rubber Tired Dozers	1	8.00	247	0.40
Pump Station Earthwork & Below Grade Concrete Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Force Main Pipeline Trenching East of Newport Bay	Cranes	1	6.00	231	0.29
Force Main Pipeline Trenching East of Newport Bay	Excavators	1	8.00	158	0.38
Force Main Pipeline Trenching East of Newport Bay	Other Construction Equipment	1	6.00	475	0.50
Force Main Pipeline Trenching East of Newport Bay	Pumps	3	6.00	84	0.74
Force Main Pipeline Trenching East of Newport Bay	Rollers	1	8.00	80	0.38
Force Main Pipeline Trenching East of Newport Bay	Rubber Tired Dozers	1	8.00	247	0.40
Force Main Pipeline Trenching East of Newport Bay	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Microtunneling Only	Other Construction Equipment	1	24.00	118	0.42
Dredging Only	Cranes	1	6.00	231	0.29
Dredging Only	Other Construction Equipment	1	8.00	500	0.50
Dredging Only	Other Construction Equipment	2	8.00	475	0.05
Dredging Only	Pumps	3	6.00	84	0.74

Dredging Only	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pump Station Above Grade Building Construction including MEP	Concrete/Industrial Saws	0	8.00	81	0.73
Pump Station Above Grade Building Construction including MEP	Cranes	1	4.00	231	0.29
Pump Station Above Grade Building Construction including MEP	Forklifts	0	6.00	89	0.20
Pump Station Above Grade Building Construction including MEP	Pumps	1	6.00	84	0.74
Pump Station Above Grade Building Construction including MEP	Rubber Tired Dozers	0	1.00	247	0.40
Pump Station Above Grade Building Construction including MEP	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Force Main Pipeline Trenching West of Newport Bay	Cranes	1	6.00	231	0.29
Force Main Pipeline Trenching West of Newport Bay	Excavators	1	8.00	158	0.38
Force Main Pipeline Trenching West of Newport Bay	Other Construction Equipment	1	8.00	475	0.05
Force Main Pipeline Trenching West of Newport Bay	Pumps	3	8.00	84	0.74
Force Main Pipeline Trenching West of Newport Bay	Rollers	1	6.00	80	0.38
Force Main Pipeline Trenching West of Newport Bay	Rubber Tired Dozers	1	6.00	247	0.40
Force Main Pipeline Trenching West of Newport Bay	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Temporary Gravity Sewer Trenching	Cranes	1	6.00	231	0.29
Temporary Gravity Sewer Trenching	Excavators	1	8.00	158	0.38
Temporary Gravity Sewer Trenching	Other Construction Equipment	1	8.00	475	0.42
Temporary Gravity Sewer Trenching	Pumps	3	8.00	84	0.74
Temporary Gravity Sewer Trenching	Rollers	1	6.00	80	0.38
Temporary Gravity Sewer Trenching	Rubber Tired Dozers	1	8.00	247	0.40
Temporary Gravity Sewer Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pump Station Architectural Coating	Air Compressors	1	6.00	78	0.48
Pump Station Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Pump Station Demolition	Excavators	1	6.00	158	0.38

Pump Station Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Pump Station Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Permanent Gravity Sewer Trenching	Cranes	1	6.00	231	0.29
Permanent Gravity Sewer Trenching	Excavators	1	6.00	158	0.38
Permanent Gravity Sewer Trenching	Other Construction Equipment	1	6.00	475	0.05
Permanent Gravity Sewer Trenching	Pumps	3	6.00	84	0.74
Permanent Gravity Sewer Trenching	Rollers	1	6.00	80	0.38
Permanent Gravity Sewer Trenching	Rubber Tired Dozers	1	8.00	247	0.40
Permanent Gravity Sewer Trenching	Tractors/Loaders/Backhoes	1	1.00	97	0.37
Generator and Odor Control Building Construction	Cranes	1	4.00	231	0.29
Generator and Odor Control Building Construction	Forklifts	0	6.00	89	0.20
Generator and Odor Control Building Construction	Pumps	1	6.00	84	0.74
Generator and Odor Control Building Construction	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
Pump Station Earthwork & Below Gr	9	23.00	0.00	481.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Force Main Pipeline Trenching East of Ne	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Microtunneling Only	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Dredging Only	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Above Grade Building Constr	4	13.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Force Main Pipeline Trenching West of Ne	10	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Temporary Gravity Sewer Trenching	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Demolition	3	8.00	0.00	182.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Permanent Gravity Sewer Trenching	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Generator and Odor Control Building Const	4	13.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Force Main Pipeline Trenching East of Newport Bay - 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	2.7462	26.5705	24.5909	0.0540		1.2002	1.2002		1.1284	1.1284		5,199.7085	5,199.7085	1.2925		5,232.0197
Total	**2.7462**	**26.5705**	**24.5909**	**0.0540**		**1.2002**	**1.2002**		**1.1284**	**1.1284**		**5,199.7085**	**5,199.7085**	**1.2925**		**5,232.0197**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0846	0.0454	0.5593	2.1300e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4800e-003	0.0697		212.0964	212.0964	4.0300e-003		212.1973
Total	**0.0846**	**0.0454**	**0.5593**	**2.1300e-003**	**0.2571**	**1.6000e-003**	**0.2587**	**0.0682**	**1.4800e-003**	**0.0697**		**212.0964**	**212.0964**	**4.0300e-003**		**212.1973**

3.2 Force Main Pipeline Trenching East of Newport Bay - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7462	26.5705	24.5909	0.0540		1.2002	1.2002		1.1284	1.1284	0.0000	5,199.7085	5,199.7085	1.2925		5,232.0197
Total	**2.7462**	**26.5705**	**24.5909**	**0.0540**		**1.2002**	**1.2002**		**1.1284**	**1.1284**	**0.0000**	**5,199.7085**	**5,199.7085**	**1.2925**		**5,232.0197**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0846	0.0454	0.5593	2.1300e-003	0.1990	1.6000e-003	0.2006	0.0539	1.4800e-003	0.0554		212.0964	212.0964	4.0300e-003		212.1973
Total	**0.0846**	**0.0454**	**0.5593**	**2.1300e-003**	**0.1990**	**1.6000e-003**	**0.2006**	**0.0539**	**1.4800e-003**	**0.0554**		**212.0964**	**212.0964**	**4.0300e-003**		**212.1973**

3.3 Microtunneling Only - 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	1.0639	9.9387	9.5237	0.0128		0.6788	0.6788		0.6245	0.6245		1,237.6833	1,237.6833	0.4003		1,247.6906
Total	**1.0639**	**9.9387**	**9.5237**	**0.0128**		**0.6788**	**0.6788**		**0.6245**	**0.6245**		**1,237.6833**	**1,237.6833**	**0.4003**		**1,247.6906**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0110	5.9200e-003	0.0730	2.8000e-004	0.0335	2.1000e-004	0.0337	8.8900e-003	1.9000e-004	9.0900e-003		27.6648	27.6648	5.3000e-004		27.6779
Total	**0.0110**	**5.9200e-003**	**0.0730**	**2.8000e-004**	**0.0335**	**2.1000e-004**	**0.0337**	**8.8900e-003**	**1.9000e-004**	**9.0900e-003**		**27.6648**	**27.6648**	**5.3000e-004**		**27.6779**

3.3 Microtunneling Only - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0639	9.9387	9.5237	0.0128		0.6788	0.6788		0.6245	0.6245	0.0000	1,237.6833	1,237.6833	0.4003		1,247.6906
Total	**1.0639**	**9.9387**	**9.5237**	**0.0128**		**0.6788**	**0.6788**		**0.6245**	**0.6245**	**0.0000**	**1,237.6833**	**1,237.6833**	**0.4003**		**1,247.6906**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0110	5.9200e-003	0.0730	2.8000e-004	0.0260	2.1000e-004	0.0262	7.0300e-003	1.9000e-004	7.2300e-003		27.6648	27.6648	5.3000e-004		27.6779
Total	**0.0110**	**5.9200e-003**	**0.0730**	**2.8000e-004**	**0.0260**	**2.1000e-004**	**0.0262**	**7.0300e-003**	**1.9000e-004**	**7.2300e-003**		**27.6648**	**27.6648**	**5.3000e-004**		**27.6779**

3.4 Pump Station Earthwork & Below Grade Concrete Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0480	0.0000	0.0480	0.0257	0.0000	0.0257			0.0000			0.0000
Off-Road	2.6612	25.7994	23.2186	0.0520		1.1623	1.1623		1.0936	1.0936		4,999.2880	4,999.2880	1.2276		5,029.9787
Total	**2.6612**	**25.7994**	**23.2186**	**0.0520**	**0.0480**	**1.1623**	**1.2103**	**0.0257**	**1.0936**	**1.1193**		**4,999.2880**	**4,999.2880**	**1.2276**		**5,029.9787**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.8800e-003	0.2778	0.1279	1.2900e-003	0.0567	5.6000e-004	0.0572	0.0148	5.3000e-004	0.0154		145.5037	145.5037	0.0157		145.8952
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0846	0.0454	0.5593	2.1300e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4800e-003	0.0697		212.0964	212.0964	4.0300e-003		212.1973
Total	**0.0935**	**0.3231**	**0.6873**	**3.4200e-003**	**0.3138**	**2.1600e-003**	**0.3159**	**0.0830**	**2.0100e-003**	**0.0850**		**357.6001**	**357.6001**	**0.0197**		**358.0924**

3.4 Pump Station Earthwork & Below Grade Concrete Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0178	0.0000	0.0178	9.5300e-003	0.0000	9.5300e-003			0.0000			0.0000
Off-Road	2.6612	25.7994	23.2186	0.0520		1.1623	1.1623		1.0936	1.0936	0.0000	4,999.2880	4,999.2880	1.2276		5,029.9786
Total	**2.6612**	**25.7994**	**23.2186**	**0.0520**	**0.0178**	**1.1623**	**1.1801**	**9.5300e-003**	**1.0936**	**1.1031**	**0.0000**	**4,999.2880**	**4,999.2880**	**1.2276**		**5,029.9786**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.8800e-003	0.2778	0.1279	1.2900e-003	0.0440	5.6000e-004	0.0445	0.0117	5.3000e-004	0.0122		145.5037	145.5037	0.0157		145.8952
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0846	0.0454	0.5593	2.1300e-003	0.1990	1.6000e-003	0.2006	0.0539	1.4800e-003	0.0554		212.0964	212.0964	4.0300e-003		212.1973
Total	**0.0935**	**0.3231**	**0.6873**	**3.4200e-003**	**0.2429**	**2.1600e-003**	**0.2451**	**0.0656**	**2.0100e-003**	**0.0676**		**357.6001**	**357.6001**	**0.0197**		**358.0924**

3.4 Pump Station Earthwork & Below Grade Concrete 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					
Fugitive Dust					0.0480	0.0000	0.0480	0.0257	0.0000	0.0257			0.0000			0.0000
Off-Road	2.5707	24.4884	23.1504	0.0520		1.0790	1.0790		1.0138	1.0138		5,000.4995	5,000.4995	1.2256		5,031.1383
Total	**2.5707**	**24.4884**	**23.1504**	**0.0520**	**0.0480**	**1.0790**	**1.1270**	**0.0257**	**1.0138**	**1.0395**		**5,000.4995**	**5,000.4995**	**1.2256**		**5,031.1383**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.7200e-003	0.2708	0.1292	1.2800e-003	0.0567	5.5000e-004	0.0572	0.0148	5.2000e-004	0.0153		144.2809	144.2809	0.0156		144.6716
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0807	0.0413	0.5201	2.0400e-003	0.2571	1.5800e-003	0.2587	0.0682	1.4500e-003	0.0696		203.6940	203.6940	3.6600e-003		203.7855
Total	**0.0894**	**0.3121**	**0.6494**	**3.3200e-003**	**0.3138**	**2.1300e-003**	**0.3159**	**0.0830**	**1.9700e-003**	**0.0850**		**347.9749**	**347.9749**	**0.0193**		**348.4571**

3.4 Pump Station Earthwork & Below Grade Concrete Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0178	0.0000	0.0178	9.5300e-003	0.0000	9.5300e-003			0.0000			0.0000
Off-Road	2.5707	24.4884	23.1504	0.0520		1.0790	1.0790		1.0138	1.0138	0.0000	5,000.4995	5,000.4995	1.2256		5,031.1383
Total	**2.5707**	**24.4884**	**23.1504**	**0.0520**	**0.0178**	**1.0790**	**1.0968**	**9.5300e-003**	**1.0138**	**1.0233**	**0.0000**	**5,000.4995**	**5,000.4995**	**1.2256**		**5,031.1383**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.7200e-003	0.2708	0.1292	1.2800e-003	0.0440	5.5000e-004	0.0445	0.0117	5.2000e-004	0.0122		144.2809	144.2809	0.0156		144.6716
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0807	0.0413	0.5201	2.0400e-003	0.1990	1.5800e-003	0.2006	0.0539	1.4500e-003	0.0554		203.6940	203.6940	3.6600e-003		203.7855
Total	**0.0894**	**0.3121**	**0.6494**	**3.3200e-003**	**0.2429**	**2.1300e-003**	**0.2450**	**0.0656**	**1.9700e-003**	**0.0676**		**347.9749**	**347.9749**	**0.0193**		**348.4571**

3.5 Dredging Only - 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	2.1430	20.1252	21.4257	0.0512		0.8440	0.8440		0.7976	0.7976		4,924.5782	4,924.5782	1.2010		4,954.6031
Total	**2.1430**	**20.1252**	**21.4257**	**0.0512**		**0.8440**	**0.8440**		**0.7976**	**0.7976**		**4,924.5782**	**4,924.5782**	**1.2010**		**4,954.6031**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0701	0.0359	0.4523	1.7800e-003	0.2236	1.3700e-003	0.2249	0.0593	1.2600e-003	0.0606		177.1252	177.1252	3.1800e-003		177.2048
Total	**0.0701**	**0.0359**	**0.4523**	**1.7800e-003**	**0.2236**	**1.3700e-003**	**0.2249**	**0.0593**	**1.2600e-003**	**0.0606**		**177.1252**	**177.1252**	**3.1800e-003**		**177.2048**

3.5 Dredging Only - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1430	20.1252	21.4257	0.0512		0.8440	0.8440		0.7976	0.7976	0.0000	4,924.5782	4,924.5782	1.2010		4,954.6031
Total	**2.1430**	**20.1252**	**21.4257**	**0.0512**		**0.8440**	**0.8440**		**0.7976**	**0.7976**	**0.0000**	**4,924.5782**	**4,924.5782**	**1.2010**		**4,954.6031**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0701	0.0359	0.4523	1.7800e-003	0.1730	1.3700e-003	0.1744	0.0469	1.2600e-003	0.0482		177.1252	177.1252	3.1800e-003		177.2048
Total	**0.0701**	**0.0359**	**0.4523**	**1.7800e-003**	**0.1730**	**1.3700e-003**	**0.1744**	**0.0469**	**1.2600e-003**	**0.0482**		**177.1252**	**177.1252**	**3.1800e-003**		**177.2048**

3.6 Force Main Pipeline Trenching West of Newport Bay - 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	2.1945	20.4063	22.3060	0.0428		0.9252	0.9252		0.8793	0.8793		4,100.6751	4,100.6751	0.8040		4,120.7741
Total	**2.1945**	**20.4063**	**22.3060**	**0.0428**		**0.9252**	**0.9252**		**0.8793**	**0.8793**		**4,100.6751**	**4,100.6751**	**0.8040**		**4,120.7741**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0877	0.0449	0.5654	2.2200e-003	0.2794	1.7100e-003	0.2812	0.0741	1.5800e-003	0.0757		221.4065	221.4065	3.9800e-003		221.5060
Total	**0.0877**	**0.0449**	**0.5654**	**2.2200e-003**	**0.2794**	**1.7100e-003**	**0.2812**	**0.0741**	**1.5800e-003**	**0.0757**		**221.4065**	**221.4065**	**3.9800e-003**		**221.5060**

3.6 Force Main Pipeline Trenching West of Newport Bay - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1945	20.4063	22.3060	0.0428		0.9252	0.9252		0.8793	0.8793	0.0000	4,100.6751	4,100.6751	0.8040		4,120.7741
Total	**2.1945**	**20.4063**	**22.3060**	**0.0428**		**0.9252**	**0.9252**		**0.8793**	**0.8793**	**0.0000**	**4,100.6751**	**4,100.6751**	**0.8040**		**4,120.7741**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0877	0.0449	0.5654	2.2200e-003	0.2163	1.7100e-003	0.2180	0.0586	1.5800e-003	0.0602		221.4065	221.4065	3.9800e-003		221.5060
Total	**0.0877**	**0.0449**	**0.5654**	**2.2200e-003**	**0.2163**	**1.7100e-003**	**0.2180**	**0.0586**	**1.5800e-003**	**0.0602**		**221.4065**	**221.4065**	**3.9800e-003**		**221.5060**

3.7 Pump Station Above Grade Building Construction including MEP - 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	0.6831	6.5825	8.1484	0.0141		0.2938	0.2938		0.2774	0.2774		1,350.2131	1,350.2131	0.3061		1,357.8660
Total	**0.6831**	**6.5825**	**8.1484**	**0.0141**		**0.2938**	**0.2938**		**0.2774**	**0.2774**		**1,350.2131**	**1,350.2131**	**0.3061**		**1,357.8660**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.6900e-003	0.3289	0.1210	1.1400e-003	0.0319	4.2000e-004	0.0324	9.1900e-003	4.0000e-004	9.5900e-003		124.9200	124.9200	9.7200e-003		125.1629
Worker	0.0456	0.0234	0.2940	1.1500e-003	0.1453	8.9000e-004	0.1462	0.0385	8.2000e-004	0.0394		115.1314	115.1314	2.0700e-003		115.1831
Total	**0.0553**	**0.3523**	**0.4150**	**2.2900e-003**	**0.1773**	**1.3100e-003**	**0.1786**	**0.0477**	**1.2200e-003**	**0.0490**		**240.0514**	**240.0514**	**0.0118**		**240.3460**

3.7 Pump Station Above Grade Building Construction including MEP - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6831	6.5825	8.1484	0.0141		0.2938	0.2938		0.2774	0.2774	0.0000	1,350.2131	1,350.2131	0.3061		1,357.8660
Total	**0.6831**	**6.5825**	**8.1484**	**0.0141**		**0.2938**	**0.2938**		**0.2774**	**0.2774**	**0.0000**	**1,350.2131**	**1,350.2131**	**0.3061**		**1,357.8660**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.6900e-003	0.3289	0.1210	1.1400e-003	0.0260	4.2000e-004	0.0264	7.7400e-003	4.0000e-004	8.1400e-003		124.9200	124.9200	9.7200e-003		125.1629
Worker	0.0456	0.0234	0.2940	1.1500e-003	0.1125	8.9000e-004	0.1134	0.0305	8.2000e-004	0.0313		115.1314	115.1314	2.0700e-003		115.1831
Total	**0.0553**	**0.3523**	**0.4150**	**2.2900e-003**	**0.1385**	**1.3100e-003**	**0.1398**	**0.0382**	**1.2200e-003**	**0.0394**		**240.0514**	**240.0514**	**0.0118**		**240.3460**

3.7 Pump Station Above Grade Building Construction including MEP - 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	0.6353	6.0738	8.1141	0.0141		0.2512	0.2512		0.2371	0.2371		1,350.8008	1,350.8008	0.3047		1,358.4173
Total	**0.6353**	**6.0738**	**8.1141**	**0.0141**		**0.2512**	**0.2512**		**0.2371**	**0.2371**		**1,350.8008**	**1,350.8008**	**0.3047**		**1,358.4173**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.4300e-003	0.3247	0.1195	1.1300e-003	0.0319	4.1000e-004	0.0324	9.1900e-003	3.9000e-004	9.5800e-003		124.1672	124.1672	9.5700e-003		124.4065
Worker	0.0437	0.0214	0.2743	1.1100e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0394		110.4816	110.4816	1.8900e-003		110.5288
Total	**0.0531**	**0.3461**	**0.3937**	**2.2400e-003**	**0.1773**	**1.2900e-003**	**0.1785**	**0.0477**	**1.2000e-003**	**0.0489**		**234.6487**	**234.6487**	**0.0115**		**234.9353**

3.7 Pump Station Above Grade Building Construction including MEP - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6353	6.0738	8.1141	0.0141		0.2512	0.2512		0.2371	0.2371	0.0000	1,350.8008	1,350.8008	0.3047		1,358.4173
Total	**0.6353**	**6.0738**	**8.1141**	**0.0141**		**0.2512**	**0.2512**		**0.2371**	**0.2371**	**0.0000**	**1,350.8008**	**1,350.8008**	**0.3047**		**1,358.4173**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.4300e-003	0.3247	0.1195	1.1300e-003	0.0260	4.1000e-004	0.0264	7.7400e-003	3.9000e-004	8.1300e-003		124.1672	124.1672	9.5700e-003		124.4065
Worker	0.0437	0.0214	0.2743	1.1100e-003	0.1125	8.8000e-004	0.1133	0.0305	8.1000e-004	0.0313		110.4816	110.4816	1.8900e-003		110.5288
Total	**0.0531**	**0.3461**	**0.3937**	**2.2400e-003**	**0.1385**	**1.2900e-003**	**0.1398**	**0.0382**	**1.2000e-003**	**0.0394**		**234.6487**	**234.6487**	**0.0115**		**234.9353**

3.8 Temporary Gravity Sewer Trenching - 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	2.9106	27.3862	27.3741	0.0602		1.2050	1.2050		1.1367	1.1367		5,784.3769	5,784.3769	1.3485		5,818.0895
Total	**2.9106**	**27.3862**	**27.3741**	**0.0602**		**1.2050**	**1.2050**		**1.1367**	**1.1367**		**5,784.3769**	**5,784.3769**	**1.3485**		**5,818.0895**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0807	0.0413	0.5201	2.0400e-003	0.2571	1.5800e-003	0.2587	0.0682	1.4500e-003	0.0696		203.6940	203.6940	3.6600e-003		203.7855
Total	**0.0807**	**0.0413**	**0.5201**	**2.0400e-003**	**0.2571**	**1.5800e-003**	**0.2587**	**0.0682**	**1.4500e-003**	**0.0696**		**203.6940**	**203.6940**	**3.6600e-003**		**203.7855**

3.8 Temporary Gravity Sewer Trenching - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9106	27.3862	27.3741	0.0602		1.2050	1.2050		1.1367	1.1367	0.0000	5,784.3769	5,784.3769	1.3485		5,818.0895
Total	**2.9106**	**27.3862**	**27.3741**	**0.0602**		**1.2050**	**1.2050**		**1.1367**	**1.1367**	**0.0000**	**5,784.3769**	**5,784.3769**	**1.3485**		**5,818.0895**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0807	0.0413	0.5201	2.0400e-003	0.1990	1.5800e-003	0.2006	0.0539	1.4500e-003	0.0554		203.6940	203.6940	3.6600e-003		203.7855
Total	**0.0807**	**0.0413**	**0.5201**	**2.0400e-003**	**0.1990**	**1.5800e-003**	**0.2006**	**0.0539**	**1.4500e-003**	**0.0554**		**203.6940**	**203.6940**	**3.6600e-003**		**203.7855**

3.9 Pump Station Architectural Coating - 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					
Archit. Coating	27.8610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**28.0417**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0210	0.0108	0.1357	5.3000e-004	0.1254	4.1000e-004	0.1258	0.0321	3.8000e-004	0.0325		53.1376	53.1376	9.5000e-004		53.1614
Total	**0.0210**	**0.0108**	**0.1357**	**5.3000e-004**	**0.1254**	**4.1000e-004**	**0.1258**	**0.0321**	**3.8000e-004**	**0.0325**		**53.1376**	**53.1376**	**9.5000e-004**		**53.1614**

3.9 Pump Station Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	27.8610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**28.0417**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0210	0.0108	0.1357	5.3000e-004	0.0951	4.1000e-004	0.0955	0.0247	3.8000e-004	0.0250		53.1376	53.1376	9.5000e-004		53.1614
Total	**0.0210**	**0.0108**	**0.1357**	**5.3000e-004**	**0.0951**	**4.1000e-004**	**0.0955**	**0.0247**	**3.8000e-004**	**0.0250**		**53.1376**	**53.1376**	**9.5000e-004**		**53.1614**

3.10 Pump Station Demolition - 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					0.4422	0.0000	0.4422	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	0.3054	2.7465	4.4915	7.2900e-003		0.1218	0.1218		0.1120	0.1120		705.1653	705.1653	0.2281		710.8669
Total	**0.3054**	**2.7465**	**4.4915**	**7.2900e-003**	**0.4422**	**0.1218**	**0.5639**	**0.0670**	**0.1120**	**0.1790**		**705.1653**	**705.1653**	**0.2281**		**710.8669**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5500e-003	0.2918	0.1450	1.4000e-003	0.0356	5.9000e-004	0.0362	9.7400e-003	5.7000e-004	0.0103		158.4628	158.4628	0.0173		158.8940
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0269	0.0132	0.1688	6.8000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		67.9887	67.9887	1.1600e-003		68.0177
Total	**0.0364**	**0.3050**	**0.3138**	**2.0800e-003**	**0.1250**	**1.1300e-003**	**0.1262**	**0.0335**	**1.0700e-003**	**0.0345**		**226.4514**	**226.4514**	**0.0184**		**226.9117**

3.10 Pump Station Demolition - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1638	0.0000	0.1638	0.0248	0.0000	0.0248			0.0000			0.0000
Off-Road	0.3054	2.7465	4.4915	7.2900e-003		0.1218	0.1218		0.1120	0.1120	0.0000	705.1653	705.1653	0.2281		710.8669
Total	**0.3054**	**2.7465**	**4.4915**	**7.2900e-003**	**0.1638**	**0.1218**	**0.2856**	**0.0248**	**0.1120**	**0.1368**	**0.0000**	**705.1653**	**705.1653**	**0.2281**		**710.8669**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5500e-003	0.2918	0.1450	1.4000e-003	0.0286	5.9000e-004	0.0292	8.0200e-003	5.7000e-004	8.5800e-003		158.4628	158.4628	0.0173		158.8940
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0269	0.0132	0.1688	6.8000e-004	0.0692	5.4000e-004	0.0698	0.0188	5.0000e-004	0.0193		67.9887	67.9887	1.1600e-003		68.0177
Total	**0.0364**	**0.3050**	**0.3138**	**2.0800e-003**	**0.0978**	**1.1300e-003**	**0.0989**	**0.0268**	**1.0700e-003**	**0.0278**		**226.4514**	**226.4514**	**0.0184**		**226.9117**

3.11 Generator and Odor Control 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	0.6353	6.0738	8.1141	0.0141		0.2512	0.2512		0.2371	0.2371		1,350.8008	1,350.8008	0.3047		1,358.4173
Total	**0.6353**	**6.0738**	**8.1141**	**0.0141**		**0.2512**	**0.2512**		**0.2371**	**0.2371**		**1,350.8008**	**1,350.8008**	**0.3047**		**1,358.4173**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.4300e-003	0.3247	0.1195	1.1300e-003	0.0319	4.1000e-004	0.0324	9.1900e-003	3.9000e-004	9.5800e-003		124.1672	124.1672	9.5700e-003		124.4065
Worker	0.0437	0.0214	0.2743	1.1100e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0394		110.4816	110.4816	1.8900e-003		110.5288
Total	**0.0531**	**0.3461**	**0.3937**	**2.2400e-003**	**0.1773**	**1.2900e-003**	**0.1785**	**0.0477**	**1.2000e-003**	**0.0489**		**234.6487**	**234.6487**	**0.0115**		**234.9353**

3.11 Generator and Odor Control Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6353	6.0738	8.1141	0.0141		0.2512	0.2512		0.2371	0.2371	0.0000	1,350.8008	1,350.8008	0.3047		1,358.4173
Total	**0.6353**	**6.0738**	**8.1141**	**0.0141**		**0.2512**	**0.2512**		**0.2371**	**0.2371**	**0.0000**	**1,350.8008**	**1,350.8008**	**0.3047**		**1,358.4173**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.4300e-003	0.3247	0.1195	1.1300e-003	0.0260	4.1000e-004	0.0264	7.7400e-003	3.9000e-004	8.1300e-003		124.1672	124.1672	9.5700e-003		124.4065
Worker	0.0437	0.0214	0.2743	1.1100e-003	0.1125	8.8000e-004	0.1133	0.0305	8.1000e-004	0.0313		110.4816	110.4816	1.8900e-003		110.5288
Total	**0.0531**	**0.3461**	**0.3937**	**2.2400e-003**	**0.1385**	**1.2900e-003**	**0.1398**	**0.0382**	**1.2000e-003**	**0.0394**		**234.6487**	**234.6487**	**0.0115**		**234.9353**

3.11 Generator and Odor Control Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6353	6.0738	8.1141	0.0141		0.2512	0.2512		0.2371	0.2371		1,350.8008	1,350.8008	0.3047		1,358.4173
Total	**0.6353**	**6.0738**	**8.1141**	**0.0141**		**0.2512**	**0.2512**		**0.2371**	**0.2371**		**1,350.8008**	**1,350.8008**	**0.3047**		**1,358.4173**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.2100e-003	0.3204	0.1184	1.1300e-003	0.0319	4.0000e-004	0.0323	9.1900e-003	3.8000e-004	9.5700e-003		123.4444	123.4444	9.4300e-003		123.6803
Worker	0.0420	0.0198	0.2574	1.0700e-003	0.1453	8.5000e-004	0.1462	0.0385	7.9000e-004	0.0393		106.4880	106.4880	1.7400e-003		106.5315
Total	**0.0513**	**0.3402**	**0.3758**	**2.2000e-003**	**0.1773**	**1.2500e-003**	**0.1785**	**0.0477**	**1.1700e-003**	**0.0489**		**229.9325**	**229.9325**	**0.0112**		**230.2117**

3.11 Generator and Odor Control Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6353	6.0738	8.1141	0.0141		0.2512	0.2512		0.2371	0.2371	0.0000	1,350.8008	1,350.8008	0.3047		1,358.4173
Total	**0.6353**	**6.0738**	**8.1141**	**0.0141**		**0.2512**	**0.2512**		**0.2371**	**0.2371**	**0.0000**	**1,350.8008**	**1,350.8008**	**0.3047**		**1,358.4173**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.2100e-003	0.3204	0.1184	1.1300e-003	0.0260	4.0000e-004	0.0264	7.7400e-003	3.8000e-004	8.1100e-003		123.4444	123.4444	9.4300e-003		123.6803
Worker	0.0420	0.0198	0.2574	1.0700e-003	0.1125	8.5000e-004	0.1133	0.0305	7.9000e-004	0.0313		106.4880	106.4880	1.7400e-003		106.5315
Total	**0.0513**	**0.3402**	**0.3758**	**2.2000e-003**	**0.1385**	**1.2500e-003**	**0.1397**	**0.0382**	**1.1700e-003**	**0.0394**		**229.9325**	**229.9325**	**0.0112**		**230.2117**

3.12 Permanent Gravity Sewer Trenching - 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	1.8240	17.1190	17.1947	0.0355		0.7429	0.7429		0.7016	0.7016		3,401.0969	3,401.0969	0.7033		3,418.6804
Total	**1.8240**	**17.1190**	**17.1947**	**0.0355**		**0.7429**	**0.7429**		**0.7016**	**0.7016**		**3,401.0969**	**3,401.0969**	**0.7033**		**3,418.6804**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0773	0.0379	0.4852	1.9600e-003	0.2571	1.5600e-003	0.2586	0.0682	1.4300e-003	0.0696		195.4674	195.4674	3.3400e-003		195.5510
Total	**0.0773**	**0.0379**	**0.4852**	**1.9600e-003**	**0.2571**	**1.5600e-003**	**0.2586**	**0.0682**	**1.4300e-003**	**0.0696**		**195.4674**	**195.4674**	**3.3400e-003**		**195.5510**

3.12 Permanent Gravity Sewer Trenching - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8240	17.1190	17.1947	0.0355		0.7429	0.7429		0.7016	0.7016	0.0000	3,401.0969	3,401.0969	0.7033		3,418.6804
Total	**1.8240**	**17.1190**	**17.1947**	**0.0355**		**0.7429**	**0.7429**		**0.7016**	**0.7016**	**0.0000**	**3,401.0969**	**3,401.0969**	**0.7033**		**3,418.6804**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0773	0.0379	0.4852	1.9600e-003	0.1990	1.5600e-003	0.2005	0.0539	1.4300e-003	0.0554		195.4674	195.4674	3.3400e-003		195.5510
Total	**0.0773**	**0.0379**	**0.4852**	**1.9600e-003**	**0.1990**	**1.5600e-003**	**0.2005**	**0.0539**	**1.4300e-003**	**0.0554**		**195.4674**	**195.4674**	**3.3400e-003**		**195.5510**

3.12 Permanent Gravity Sewer Trenching - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8240	17.1190	17.1947	0.0355		0.7429	0.7429		0.7016	0.7016		3,401.0969	3,401.0969	0.7033		3,418.6804
Total	**1.8240**	**17.1190**	**17.1947**	**0.0355**		**0.7429**	**0.7429**		**0.7016**	**0.7016**		**3,401.0969**	**3,401.0969**	**0.7033**		**3,418.6804**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0744	0.0350	0.4553	1.8900e-003	0.2571	1.5100e-003	0.2586	0.0682	1.3900e-003	0.0696		188.4019	188.4019	3.0700e-003		188.4788
Total	**0.0744**	**0.0350**	**0.4553**	**1.8900e-003**	**0.2571**	**1.5100e-003**	**0.2586**	**0.0682**	**1.3900e-003**	**0.0696**		**188.4019**	**188.4019**	**3.0700e-003**		**188.4788**

3.12 Permanent Gravity Sewer Trenching - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8240	17.1190	17.1947	0.0355		0.7429	0.7429		0.7016	0.7016	0.0000	3,401.0969	3,401.0969	0.7033		3,418.6804
Total	**1.8240**	**17.1190**	**17.1947**	**0.0355**		**0.7429**	**0.7429**		**0.7016**	**0.7016**	**0.0000**	**3,401.0969**	**3,401.0969**	**0.7033**		**3,418.6804**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0744	0.0350	0.4553	1.8900e-003	0.1990	1.5100e-003	0.2005	0.0539	1.3900e-003	0.0553		188.4019	188.4019	3.0700e-003		188.4788
Total	**0.0744**	**0.0350**	**0.4553**	**1.8900e-003**	**0.1990**	**1.5100e-003**	**0.2005**	**0.0539**	**1.3900e-003**	**0.0553**		**188.4019**	**188.4019**	**3.0700e-003**		**188.4788**

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	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	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Other Asphalt Surfaces	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.1500e-003	0.0650	0.0546	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003		77.9939	77.9939	1.4900e-003	1.4300e-003	78.4574
NaturalGas Unmitigated	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1900e-003	6.1900e-003		6.1900e-003	6.1900e-003		97.6793	97.6793	1.8700e-003	1.7900e-003	98.2598

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	830.274	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1900e-003	6.1900e-003		6.1900e-003	6.1900e-003		97.6793	97.6793	1.8700e-003	1.7900e-003	98.2598
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		**8.9500e-003**	**0.0814**	**0.0684**	**4.9000e-004**		**6.1900e-003**	**6.1900e-003**		**6.1900e-003**	**6.1900e-003**		**97.6793**	**97.6793**	**1.8700e-003**	**1.7900e-003**	**98.2598**

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	0.662948	7.1500e-003	0.0650	0.0546	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003		77.9939	77.9939	1.4900e-003	1.4300e-003	78.4574
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		**7.1500e-003**	**0.0650**	**0.0546**	**3.9000e-004**		**4.9400e-003**	**4.9400e-003**		**4.9400e-003**	**4.9400e-003**		**77.9939**	**77.9939**	**1.4900e-003**	**1.4300e-003**	**78.4574**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3313	3.0000e-005	3.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.6900e-003	6.6900e-003	2.0000e-005		7.1300e-003
Unmitigated	0.3313	3.0000e-005	3.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.6900e-003	6.6900e-003	2.0000e-005		7.1300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2928					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9000e-004	3.0000e-005	3.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.6900e-003	6.6900e-003	2.0000e-005		7.1300e-003
Total	**0.3313**	**3.0000e-005**	**3.1100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**6.6900e-003**	**6.6900e-003**	**2.0000e-005**		**7.1300e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2928					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9000e-004	3.0000e-005	3.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.6900e-003	6.6900e-003	2.0000e-005		7.1300e-003
Total	**0.3313**	**3.0000e-005**	**3.1100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**6.6900e-003**	**6.6900e-003**	**2.0000e-005**		**7.1300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Bay Bridge

Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	14.50	1000sqft	0.33	14,500.00	0
Other Asphalt Surfaces	16.09	1000sqft	0.37	16,085.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor Source: Southern California Edison, 2018 Sustainability Report, dated May 2019.

Land Use -

Construction Phase - Applicant construction schedule.

Off-road Equipment - Per construction questionnaire. Dredge [500 HP], sheeting driver [475 HP], and vibratory hammer pile driver [475 HP] modeled as "Other Construction Equipment".

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = vibratory hammer pile driver

Off-road Equipment - Per construction questionnaire. Vibratory hammer pile driver modeled as "Other Construction Equipment".

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = microtunneling machine

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = vibratory hammer pile driver

Off-road Equipment - Per construction questionnaire.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = vibratory hammer pile driver

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = vibratory hammer pile driver

Demolition -

Trips and VMT -

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Energy Mitigation - % Improvement based on efficiency of 2019 Title 24 Standards compared to 2016 Title 24 Standards.

Grading -

Vehicle Trips - The project would not generate additional vehicle trips above existing conditions.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	107.00
tblConstructionPhase	NumDays	100.00	155.00
tblConstructionPhase	NumDays	10.00	89.00
tblConstructionPhase	NumDays	2.00	260.00
tblGrading	MaterialExported	0.00	3,850.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	118.00
tblOffRoadEquipment	HorsePower	172.00	500.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.05
tblOffRoadEquipment	LoadFactor	0.42	0.05
tblOffRoadEquipment	LoadFactor	0.42	0.05
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	1.00
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	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	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	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Pump Station Earthwork & Below Grade Concrete Construction
tblOffRoadEquipment	PhaseName		Pump Station Earthwork & Below Grade Concrete Construction
tblOffRoadEquipment	PhaseName		Pump Station Earthwork & Below Grade Concrete Construction
tblOffRoadEquipment	PhaseName		Pump Station Earthwork & Below Grade Concrete Construction
tblOffRoadEquipment	PhaseName		Pump Station Earthwork & Below Grade Concrete Construction
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay

tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Microtunneling Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Pump Station Above Grade Building Construction including MEP
tblOffRoadEquipment	PhaseName		Pump Station Above Grade Building Construction including MEP
tblOffRoadEquipment	PhaseName		Pump Station Above Grade Building Construction including MEP
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching West of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching West of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching West of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching West of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching West of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching West of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching West of Newport Bay
tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Pump Station Demolition

tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Generator and Odor Control Building Construction
tblOffRoadEquipment	UsageHours	1.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
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					
2023	6.6383	62.6730	58.7523	0.1249	0.6524	3.0452	3.6976	0.1858	2.8501	3.0359	0.0000	12,061.7999	12,061.7999	2.9449	0.0000	12,135.4211
2024	31.7737	44.9535	45.7593	0.1085	0.5853	1.9265	2.5118	0.1680	1.8146	1.9826	0.0000	10,473.8879	10,473.8879	2.4492	0.0000	10,535.1172
2025	2.5738	23.5733	26.2468	0.0539	0.5672	0.9969	1.4312	0.1159	0.9413	1.0572	0.0000	5,202.3243	5,202.3243	1.0228	0.0000	5,227.8937
2026	2.5693	23.5649	26.1956	0.0538	0.4343	0.9968	1.4311	0.1159	0.9413	1.0572	0.0000	5,189.8726	5,189.8726	1.0222	0.0000	5,215.4277
Maximum	**31.7737**	**62.6730**	**58.7523**	**0.1249**	**0.6524**	**3.0452**	**3.6976**	**0.1858**	**2.8501**	**3.0359**	**0.0000**	**12,061.7999**	**12,061.7999**	**2.9449**	**0.0000**	**12,135.4211**

2.1 Overall Construction (Maximum Daily Emission)

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	6.6383	62.6730	58.7523	0.1249	0.4856	3.0452	3.5308	0.1361	2.8501	2.9862	0.0000	12,061.7999	12,061.7999	2.9449	0.0000	12,135.4211
2024	31.7737	44.9535	45.7593	0.1085	0.4337	1.9265	2.3602	0.1220	1.8146	1.9366	0.0000	10,473.8879	10,473.8879	2.4492	0.0000	10,535.1172
2025	2.5738	23.5733	26.2468	0.0539	0.3375	0.9969	1.3343	0.0921	0.9413	1.0335	0.0000	5,202.3243	5,202.3243	1.0228	0.0000	5,227.8937
2026	2.5693	23.5649	26.1956	0.0538	0.3375	0.9968	1.3342	0.0921	0.9413	1.0334	0.0000	5,189.8726	5,189.8726	1.0222	0.0000	5,215.4277
Maximum	**31.7737**	**62.6730**	**58.7523**	**0.1249**	**0.4856**	**3.0452**	**3.5308**	**0.1361**	**2.8501**	**2.9862**	**0.0000**	**12,061.7999**	**12,061.7999**	**2.9449**	**0.0000**	**12,135.4211**

	ROG	NOx	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**	**28.80**	**0.00**	**5.64**	**24.46**	**0.00**	**2.01**	**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	0.3313	3.0000e-005	3.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.6900e-003	6.6900e-003	2.0000e-005		7.1300e-003
Energy	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1900e-003	6.1900e-003		6.1900e-003	6.1900e-003		97.6793	97.6793	1.8700e-003	1.7900e-003	98.2598
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	**0.3402**	**0.0814**	**0.0715**	**4.9000e-004**	**0.0000**	**6.2000e-003**	**6.2000e-003**	**0.0000**	**6.2000e-003**	**6.2000e-003**		**97.6860**	**97.6860**	**1.8900e-003**	**1.7900e-003**	**98.2669**

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	0.3313	3.0000e-005	3.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.6900e-003	6.6900e-003	2.0000e-005		7.1300e-003
Energy	7.1500e-003	0.0650	0.0546	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003		77.9939	77.9939	1.4900e-003	1.4300e-003	78.4574
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	**0.3384**	**0.0650**	**0.0577**	**3.9000e-004**	**0.0000**	**4.9500e-003**	**4.9500e-003**	**0.0000**	**4.9500e-003**	**4.9500e-003**		**78.0006**	**78.0006**	**1.5100e-003**	**1.4300e-003**	**78.4645**

	ROG	NOx	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	**0.53**	**20.15**	**19.28**	**20.41**	**0.00**	**20.16**	**20.16**	**0.00**	**20.16**	**20.16**	**0.00**	**20.15**	**20.15**	**20.11**	**20.11**	**20.15**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Force Main Pipeline Trenching East of Newport Bay	Trenching	7/1/2023	12/29/2023	5	130	
2	Microtunneling Only	Trenching	7/1/2023	9/1/2023	5	45	
3	Pump Station Earthwork & Below Grade Concrete Construction	Grading	7/1/2023	6/28/2024	5	260	
4	Dredging Only	Trenching	1/1/2024	6/28/2024	5	130	
5	Force Main Pipeline Trenching West of Newport Bay	Trenching	7/1/2024	9/30/2024	5	66	
6	Pump Station Above Grade Building Construction including MEP	Building Construction	7/1/2024	1/31/2025	5	155	
7	Temporary Gravity Sewer Trenching	Trenching	10/1/2024	12/31/2024	5	66	
8	Pump Station Architectural Coating	Architectural Coating	11/1/2024	11/7/2024	5	5	
9	Pump Station Demolition	Demolition	7/1/2025	10/31/2025	5	89	
10	Generator and Odor Control Building Construction	Building Construction	11/1/2025	3/31/2026	5	107	
11	Permanent Gravity Sewer Trenching	Trenching	11/1/2025	1/31/2026	5	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.37

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 21,750; Non-Residential Outdoor: 7,250; Striped Parking Area: 1,055 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Pump Station Earthwork & Below Grade Concrete Construction	Concrete/Industrial Saws	0	8.00	81	0.73
Pump Station Earthwork & Below Grade Concrete Construction	Cranes	1	6.00	231	0.29
Pump Station Earthwork & Below Grade Concrete Construction	Excavators	1	6.00	158	0.38
Pump Station Earthwork & Below Grade Concrete Construction	Other Construction Equipment	1	6.00	475	0.50
Pump Station Earthwork & Below Grade Concrete Construction	Pumps	3	6.00	84	0.74
Pump Station Earthwork & Below Grade Concrete Construction	Rollers	1	8.00	80	0.38
Pump Station Earthwork & Below Grade Concrete Construction	Rubber Tired Dozers	1	8.00	247	0.40
Pump Station Earthwork & Below Grade Concrete Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Force Main Pipeline Trenching East of Newport Bay	Cranes	1	6.00	231	0.29
Force Main Pipeline Trenching East of Newport Bay	Excavators	1	8.00	158	0.38
Force Main Pipeline Trenching East of Newport Bay	Other Construction Equipment	1	6.00	475	0.50
Force Main Pipeline Trenching East of Newport Bay	Pumps	3	6.00	84	0.74
Force Main Pipeline Trenching East of Newport Bay	Rollers	1	8.00	80	0.38
Force Main Pipeline Trenching East of Newport Bay	Rubber Tired Dozers	1	8.00	247	0.40
Force Main Pipeline Trenching East of Newport Bay	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Microtunneling Only	Other Construction Equipment	1	24.00	118	0.42
Dredging Only	Cranes	1	6.00	231	0.29
Dredging Only	Other Construction Equipment	1	8.00	500	0.50
Dredging Only	Other Construction Equipment	2	8.00	475	0.05
Dredging Only	Pumps	3	6.00	84	0.74

Dredging Only	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pump Station Above Grade Building Construction including MEP	Concrete/Industrial Saws	0	8.00	81	0.73
Pump Station Above Grade Building Construction including MEP	Cranes	1	4.00	231	0.29
Pump Station Above Grade Building Construction including MEP	Forklifts	0	6.00	89	0.20
Pump Station Above Grade Building Construction including MEP	Pumps	1	6.00	84	0.74
Pump Station Above Grade Building Construction including MEP	Rubber Tired Dozers	0	1.00	247	0.40
Pump Station Above Grade Building Construction including MEP	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Force Main Pipeline Trenching West of Newport Bay	Cranes	1	6.00	231	0.29
Force Main Pipeline Trenching West of Newport Bay	Excavators	1	8.00	158	0.38
Force Main Pipeline Trenching West of Newport Bay	Other Construction Equipment	1	8.00	475	0.05
Force Main Pipeline Trenching West of Newport Bay	Pumps	3	8.00	84	0.74
Force Main Pipeline Trenching West of Newport Bay	Rollers	1	6.00	80	0.38
Force Main Pipeline Trenching West of Newport Bay	Rubber Tired Dozers	1	6.00	247	0.40
Force Main Pipeline Trenching West of Newport Bay	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Temporary Gravity Sewer Trenching	Cranes	1	6.00	231	0.29
Temporary Gravity Sewer Trenching	Excavators	1	8.00	158	0.38
Temporary Gravity Sewer Trenching	Other Construction Equipment	1	8.00	475	0.42
Temporary Gravity Sewer Trenching	Pumps	3	8.00	84	0.74
Temporary Gravity Sewer Trenching	Rollers	1	6.00	80	0.38
Temporary Gravity Sewer Trenching	Rubber Tired Dozers	1	8.00	247	0.40
Temporary Gravity Sewer Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pump Station Architectural Coating	Air Compressors	1	6.00	78	0.48
Pump Station Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Pump Station Demolition	Excavators	1	6.00	158	0.38

Pump Station Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Pump Station Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Permanent Gravity Sewer Trenching	Cranes	1	6.00	231	0.29
Permanent Gravity Sewer Trenching	Excavators	1	6.00	158	0.38
Permanent Gravity Sewer Trenching	Other Construction Equipment	1	6.00	475	0.05
Permanent Gravity Sewer Trenching	Pumps	3	6.00	84	0.74
Permanent Gravity Sewer Trenching	Rollers	1	6.00	80	0.38
Permanent Gravity Sewer Trenching	Rubber Tired Dozers	1	8.00	247	0.40
Permanent Gravity Sewer Trenching	Tractors/Loaders/Backhoes	1	1.00	97	0.37
Generator and Odor Control Building Construction	Cranes	1	4.00	231	0.29
Generator and Odor Control Building Construction	Forklifts	0	6.00	89	0.20
Generator and Odor Control Building Construction	Pumps	1	6.00	84	0.74
Generator and Odor Control Building Construction	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
Pump Station Earthwork & Below Gr	9	23.00	0.00	481.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Force Main Pipeline Trenching East of Ne	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Microtunneling Only	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Dredging Only	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Above Grade Building Constr	4	13.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Force Main Pipeline Trenching West of Ne	10	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Temporary Gravity Sewer Trenching	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Demolition	3	8.00	0.00	182.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Permanent Gravity Sewer Trenching	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Generator and Odor Control Building Const	4	13.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Force Main Pipeline Trenching East of Newport Bay - 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	2.7462	26.5705	24.5909	0.0540		1.2002	1.2002		1.1284	1.1284		5,199.7085	5,199.7085	1.2925		5,232.0197
Total	**2.7462**	**26.5705**	**24.5909**	**0.0540**		**1.2002**	**1.2002**		**1.1284**	**1.1284**		**5,199.7085**	**5,199.7085**	**1.2925**		**5,232.0197**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0413	0.6080	2.2500e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4800e-003	0.0697		224.0774	224.0774	4.2700e-003		224.1841
Total	**0.0743**	**0.0413**	**0.6080**	**2.2500e-003**	**0.2571**	**1.6000e-003**	**0.2587**	**0.0682**	**1.4800e-003**	**0.0697**		**224.0774**	**224.0774**	**4.2700e-003**		**224.1841**

3.2 Force Main Pipeline Trenching East of Newport Bay - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7462	26.5705	24.5909	0.0540		1.2002	1.2002		1.1284	1.1284	0.0000	5,199.7085	5,199.7085	1.2925		5,232.0197
Total	**2.7462**	**26.5705**	**24.5909**	**0.0540**		**1.2002**	**1.2002**		**1.1284**	**1.1284**	**0.0000**	**5,199.7085**	**5,199.7085**	**1.2925**		**5,232.0197**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0413	0.6080	2.2500e-003	0.1990	1.6000e-003	0.2006	0.0539	1.4800e-003	0.0554		224.0774	224.0774	4.2700e-003		224.1841
Total	**0.0743**	**0.0413**	**0.6080**	**2.2500e-003**	**0.1990**	**1.6000e-003**	**0.2006**	**0.0539**	**1.4800e-003**	**0.0554**		**224.0774**	**224.0774**	**4.2700e-003**		**224.1841**

3.3 Microtunneling Only - 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	1.0639	9.9387	9.5237	0.0128		0.6788	0.6788		0.6245	0.6245		1,237.6833	1,237.6833	0.4003		1,247.6906
Total	**1.0639**	**9.9387**	**9.5237**	**0.0128**		**0.6788**	**0.6788**		**0.6245**	**0.6245**		**1,237.6833**	**1,237.6833**	**0.4003**		**1,247.6906**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.6900e-003	5.3900e-003	0.0793	2.9000e-004	0.0335	2.1000e-004	0.0337	8.8900e-003	1.9000e-004	9.0900e-003		29.2275	29.2275	5.6000e-004		29.2414
Total	**9.6900e-003**	**5.3900e-003**	**0.0793**	**2.9000e-004**	**0.0335**	**2.1000e-004**	**0.0337**	**8.8900e-003**	**1.9000e-004**	**9.0900e-003**		**29.2275**	**29.2275**	**5.6000e-004**		**29.2414**

3.3 Microtunneling Only - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0639	9.9387	9.5237	0.0128		0.6788	0.6788		0.6245	0.6245	0.0000	1,237.6833	1,237.6833	0.4003		1,247.6906
Total	**1.0639**	**9.9387**	**9.5237**	**0.0128**		**0.6788**	**0.6788**		**0.6245**	**0.6245**	**0.0000**	**1,237.6833**	**1,237.6833**	**0.4003**		**1,247.6906**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.6900e-003	5.3900e-003	0.0793	2.9000e-004	0.0260	2.1000e-004	0.0262	7.0300e-003	1.9000e-004	7.2300e-003		29.2275	29.2275	5.6000e-004		29.2414
Total	**9.6900e-003**	**5.3900e-003**	**0.0793**	**2.9000e-004**	**0.0260**	**2.1000e-004**	**0.0262**	**7.0300e-003**	**1.9000e-004**	**7.2300e-003**		**29.2275**	**29.2275**	**5.6000e-004**		**29.2414**

3.4 Pump Station Earthwork & Below Grade Concrete Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0480	0.0000	0.0480	0.0257	0.0000	0.0257			0.0000			0.0000
Off-Road	2.6612	25.7994	23.2186	0.0520		1.1623	1.1623		1.0936	1.0936		4,999.2880	4,999.2880	1.2276		5,029.9787
Total	**2.6612**	**25.7994**	**23.2186**	**0.0520**	**0.0480**	**1.1623**	**1.2103**	**0.0257**	**1.0936**	**1.1193**		**4,999.2880**	**4,999.2880**	**1.2276**		**5,029.9787**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.6700e-003	0.2764	0.1237	1.3100e-003	0.0567	5.4000e-004	0.0572	0.0148	5.2000e-004	0.0153		147.7378	147.7378	0.0154		148.1225
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0413	0.6080	2.2500e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4800e-003	0.0697		224.0774	224.0774	4.2700e-003		224.1841
Total	**0.0830**	**0.3177**	**0.7317**	**3.5600e-003**	**0.3138**	**2.1400e-003**	**0.3159**	**0.0830**	**2.0000e-003**	**0.0850**		**371.8152**	**371.8152**	**0.0197**		**372.3066**

3.4 Pump Station Earthwork & Below Grade Concrete Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0178	0.0000	0.0178	9.5300e-003	0.0000	9.5300e-003			0.0000			0.0000
Off-Road	2.6612	25.7994	23.2186	0.0520		1.1623	1.1623		1.0936	1.0936	0.0000	4,999.2880	4,999.2880	1.2276		5,029.9786
Total	**2.6612**	**25.7994**	**23.2186**	**0.0520**	**0.0178**	**1.1623**	**1.1801**	**9.5300e-003**	**1.0936**	**1.1031**	**0.0000**	**4,999.2880**	**4,999.2880**	**1.2276**		**5,029.9786**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.6700e-003	0.2764	0.1237	1.3100e-003	0.0440	5.4000e-004	0.0445	0.0117	5.2000e-004	0.0122		147.7378	147.7378	0.0154		148.1225
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0743	0.0413	0.6080	2.2500e-003	0.1990	1.6000e-003	0.2006	0.0539	1.4800e-003	0.0554		224.0774	224.0774	4.2700e-003		224.1841
Total	**0.0830**	**0.3177**	**0.7317**	**3.5600e-003**	**0.2429**	**2.1400e-003**	**0.2451**	**0.0656**	**2.0000e-003**	**0.0676**		**371.8152**	**371.8152**	**0.0197**		**372.3066**

3.4 Pump Station Earthwork & Below Grade Concrete 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					
Fugitive Dust					0.0480	0.0000	0.0480	0.0257	0.0000	0.0257			0.0000			0.0000
Off-Road	2.5707	24.4884	23.1504	0.0520		1.0790	1.0790		1.0138	1.0138		5,000.4995	5,000.4995	1.2256		5,031.1383
Total	**2.5707**	**24.4884**	**23.1504**	**0.0520**	**0.0480**	**1.0790**	**1.1270**	**0.0257**	**1.0138**	**1.0395**		**5,000.4995**	**5,000.4995**	**1.2256**		**5,031.1383**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.5200e-003	0.2695	0.1251	1.3000e-003	0.0567	5.3000e-004	0.0572	0.0148	5.1000e-004	0.0153		146.4837	146.4837	0.0154		146.8681
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0706	0.0376	0.5660	2.1600e-003	0.2571	1.5800e-003	0.2587	0.0682	1.4500e-003	0.0696		215.1979	215.1979	3.8800e-003		215.2948
Total	**0.0791**	**0.3071**	**0.6911**	**3.4600e-003**	**0.3138**	**2.1100e-003**	**0.3159**	**0.0830**	**1.9600e-003**	**0.0850**		**361.6816**	**361.6816**	**0.0193**		**362.1629**

3.4 Pump Station Earthwork & Below Grade Concrete Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0178	0.0000	0.0178	9.5300e-003	0.0000	9.5300e-003			0.0000			0.0000
Off-Road	2.5707	24.4884	23.1504	0.0520		1.0790	1.0790		1.0138	1.0138	0.0000	5,000.4995	5,000.4995	1.2256		5,031.1383
Total	**2.5707**	**24.4884**	**23.1504**	**0.0520**	**0.0178**	**1.0790**	**1.0968**	**9.5300e-003**	**1.0138**	**1.0233**	**0.0000**	**5,000.4995**	**5,000.4995**	**1.2256**		**5,031.1383**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.5200e-003	0.2695	0.1251	1.3000e-003	0.0440	5.3000e-004	0.0445	0.0117	5.1000e-004	0.0122		146.4837	146.4837	0.0154		146.8681
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0706	0.0376	0.5660	2.1600e-003	0.1990	1.5800e-003	0.2006	0.0539	1.4500e-003	0.0554		215.1979	215.1979	3.8800e-003		215.2948
Total	**0.0791**	**0.3071**	**0.6911**	**3.4600e-003**	**0.2429**	**2.1100e-003**	**0.2450**	**0.0656**	**1.9600e-003**	**0.0676**		**361.6816**	**361.6816**	**0.0193**		**362.1629**

3.5 Dredging Only - 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	2.1430	20.1252	21.4257	0.0512		0.8440	0.8440		0.7976	0.7976		4,924.5782	4,924.5782	1.2010		4,954.6031
Total	**2.1430**	**20.1252**	**21.4257**	**0.0512**		**0.8440**	**0.8440**		**0.7976**	**0.7976**		**4,924.5782**	**4,924.5782**	**1.2010**		**4,954.6031**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0614	0.0327	0.4922	1.8800e-003	0.2236	1.3700e-003	0.2249	0.0593	1.2600e-003	0.0606		187.1286	187.1286	3.3700e-003		187.2129
Total	**0.0614**	**0.0327**	**0.4922**	**1.8800e-003**	**0.2236**	**1.3700e-003**	**0.2249**	**0.0593**	**1.2600e-003**	**0.0606**		**187.1286**	**187.1286**	**3.3700e-003**		**187.2129**

3.5 Dredging Only - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1430	20.1252	21.4257	0.0512		0.8440	0.8440		0.7976	0.7976	0.0000	4,924.5782	4,924.5782	1.2010		4,954.6031
Total	**2.1430**	**20.1252**	**21.4257**	**0.0512**		**0.8440**	**0.8440**		**0.7976**	**0.7976**	**0.0000**	**4,924.5782**	**4,924.5782**	**1.2010**		**4,954.6031**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0614	0.0327	0.4922	1.8800e-003	0.1730	1.3700e-003	0.1744	0.0469	1.2600e-003	0.0482		187.1286	187.1286	3.3700e-003		187.2129
Total	**0.0614**	**0.0327**	**0.4922**	**1.8800e-003**	**0.1730**	**1.3700e-003**	**0.1744**	**0.0469**	**1.2600e-003**	**0.0482**		**187.1286**	**187.1286**	**3.3700e-003**		**187.2129**

3.6 Force Main Pipeline Trenching West of Newport Bay - 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	2.1945	20.4063	22.3060	0.0428		0.9252	0.9252		0.8793	0.8793		4,100.6751	4,100.6751	0.8040		4,120.7741
Total	**2.1945**	**20.4063**	**22.3060**	**0.0428**		**0.9252**	**0.9252**		**0.8793**	**0.8793**		**4,100.6751**	**4,100.6751**	**0.8040**		**4,120.7741**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0768	0.0409	0.6152	2.3400e-003	0.2794	1.7100e-003	0.2812	0.0741	1.5800e-003	0.0757		233.9108	233.9108	4.2100e-003		234.0161
Total	**0.0768**	**0.0409**	**0.6152**	**2.3400e-003**	**0.2794**	**1.7100e-003**	**0.2812**	**0.0741**	**1.5800e-003**	**0.0757**		**233.9108**	**233.9108**	**4.2100e-003**		**234.0161**

3.6 Force Main Pipeline Trenching West of Newport Bay - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1945	20.4063	22.3060	0.0428		0.9252	0.9252		0.8793	0.8793	0.0000	4,100.6751	4,100.6751	0.8040		4,120.7741
Total	**2.1945**	**20.4063**	**22.3060**	**0.0428**		**0.9252**	**0.9252**		**0.8793**	**0.8793**	**0.0000**	**4,100.6751**	**4,100.6751**	**0.8040**		**4,120.7741**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0768	0.0409	0.6152	2.3400e-003	0.2163	1.7100e-003	0.2180	0.0586	1.5800e-003	0.0602		233.9108	233.9108	4.2100e-003		234.0161
Total	**0.0768**	**0.0409**	**0.6152**	**2.3400e-003**	**0.2163**	**1.7100e-003**	**0.2180**	**0.0586**	**1.5800e-003**	**0.0602**		**233.9108**	**233.9108**	**4.2100e-003**		**234.0161**

3.7 Pump Station Above Grade Building Construction including MEP - 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	0.6831	6.5825	8.1484	0.0141		0.2938	0.2938		0.2774	0.2774		1,350.2131	1,350.2131	0.3061		1,357.8660
Total	**0.6831**	**6.5825**	**8.1484**	**0.0141**		**0.2938**	**0.2938**		**0.2774**	**0.2774**		**1,350.2131**	**1,350.2131**	**0.3061**		**1,357.8660**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.2200e-003	0.3308	0.1123	1.1700e-003	0.0319	3.9000e-004	0.0323	9.1900e-003	3.8000e-004	9.5700e-003		128.0083	128.0083	9.3500e-003		128.2420
Worker	0.0399	0.0213	0.3199	1.2200e-003	0.1453	8.9000e-004	0.1462	0.0385	8.2000e-004	0.0394		121.6336	121.6336	2.1900e-003		121.6884
Total	**0.0491**	**0.3520**	**0.4322**	**2.3900e-003**	**0.1773**	**1.2800e-003**	**0.1785**	**0.0477**	**1.2000e-003**	**0.0489**		**249.6419**	**249.6419**	**0.0115**		**249.9303**

3.7 Pump Station Above Grade Building Construction including MEP - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6831	6.5825	8.1484	0.0141		0.2938	0.2938		0.2774	0.2774	0.0000	1,350.2131	1,350.2131	0.3061		1,357.8660
Total	**0.6831**	**6.5825**	**8.1484**	**0.0141**		**0.2938**	**0.2938**		**0.2774**	**0.2774**	**0.0000**	**1,350.2131**	**1,350.2131**	**0.3061**		**1,357.8660**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.2200e-003	0.3308	0.1123	1.1700e-003	0.0260	3.9000e-004	0.0264	7.7400e-003	3.8000e-004	8.1100e-003		128.0083	128.0083	9.3500e-003		128.2420
Worker	0.0399	0.0213	0.3199	1.2200e-003	0.1125	8.9000e-004	0.1134	0.0305	8.2000e-004	0.0313		121.6336	121.6336	2.1900e-003		121.6884
Total	**0.0491**	**0.3520**	**0.4322**	**2.3900e-003**	**0.1385**	**1.2800e-003**	**0.1398**	**0.0382**	**1.2000e-003**	**0.0394**		**249.6419**	**249.6419**	**0.0115**		**249.9303**

3.7 Pump Station Above Grade Building Construction including MEP - 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	0.6353	6.0738	8.1141	0.0141		0.2512	0.2512		0.2371	0.2371		1,350.8008	1,350.8008	0.3047		1,358.4173
Total	**0.6353**	**6.0738**	**8.1141**	**0.0141**		**0.2512**	**0.2512**		**0.2371**	**0.2371**		**1,350.8008**	**1,350.8008**	**0.3047**		**1,358.4173**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9900e-003	0.3265	0.1110	1.1600e-003	0.0319	3.9000e-004	0.0323	9.1900e-003	3.7000e-004	9.5600e-003		127.2149	127.2149	9.2200e-003		127.4455
Worker	0.0381	0.0195	0.2987	1.1700e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0394		116.7154	116.7154	2.0000e-003		116.7655
Total	**0.0471**	**0.3460**	**0.4096**	**2.3300e-003**	**0.1773**	**1.2700e-003**	**0.1785**	**0.0477**	**1.1800e-003**	**0.0489**		**243.9302**	**243.9302**	**0.0112**		**244.2110**

3.7 Pump Station Above Grade Building Construction including MEP - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6353	6.0738	8.1141	0.0141		0.2512	0.2512		0.2371	0.2371	0.0000	1,350.8008	1,350.8008	0.3047		1,358.4173
Total	**0.6353**	**6.0738**	**8.1141**	**0.0141**		**0.2512**	**0.2512**		**0.2371**	**0.2371**	**0.0000**	**1,350.8008**	**1,350.8008**	**0.3047**		**1,358.4173**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9900e-003	0.3265	0.1110	1.1600e-003	0.0260	3.9000e-004	0.0264	7.7400e-003	3.7000e-004	8.1100e-003		127.2149	127.2149	9.2200e-003		127.4455
Worker	0.0381	0.0195	0.2987	1.1700e-003	0.1125	8.8000e-004	0.1133	0.0305	8.1000e-004	0.0313		116.7154	116.7154	2.0000e-003		116.7655
Total	**0.0471**	**0.3460**	**0.4096**	**2.3300e-003**	**0.1385**	**1.2700e-003**	**0.1397**	**0.0382**	**1.1800e-003**	**0.0394**		**243.9302**	**243.9302**	**0.0112**		**244.2110**

3.8 Temporary Gravity Sewer Trenching - 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	2.9106	27.3862	27.3741	0.0602		1.2050	1.2050		1.1367	1.1367		5,784.3769	5,784.3769	1.3485		5,818.0895
Total	**2.9106**	**27.3862**	**27.3741**	**0.0602**		**1.2050**	**1.2050**		**1.1367**	**1.1367**		**5,784.3769**	**5,784.3769**	**1.3485**		**5,818.0895**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0706	0.0376	0.5660	2.1600e-003	0.2571	1.5800e-003	0.2587	0.0682	1.4500e-003	0.0696		215.1979	215.1979	3.8800e-003		215.2948
Total	**0.0706**	**0.0376**	**0.5660**	**2.1600e-003**	**0.2571**	**1.5800e-003**	**0.2587**	**0.0682**	**1.4500e-003**	**0.0696**		**215.1979**	**215.1979**	**3.8800e-003**		**215.2948**

3.8 Temporary Gravity Sewer Trenching - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9106	27.3862	27.3741	0.0602		1.2050	1.2050		1.1367	1.1367	0.0000	5,784.3769	5,784.3769	1.3485		5,818.0895
Total	**2.9106**	**27.3862**	**27.3741**	**0.0602**		**1.2050**	**1.2050**		**1.1367**	**1.1367**	**0.0000**	**5,784.3769**	**5,784.3769**	**1.3485**		**5,818.0895**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0706	0.0376	0.5660	2.1600e-003	0.1990	1.5800e-003	0.2006	0.0539	1.4500e-003	0.0554		215.1979	215.1979	3.8800e-003		215.2948
Total	**0.0706**	**0.0376**	**0.5660**	**2.1600e-003**	**0.1990**	**1.5800e-003**	**0.2006**	**0.0539**	**1.4500e-003**	**0.0554**		**215.1979**	**215.1979**	**3.8800e-003**		**215.2948**

3.9 Pump Station Architectural Coating - 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					
Archit. Coating	27.8610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**28.0417**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0184	9.8200e-003	0.1477	5.6000e-004	0.1254	4.1000e-004	0.1258	0.0321	3.8000e-004	0.0325		56.1386	56.1386	1.0100e-003		56.1639
Total	**0.0184**	**9.8200e-003**	**0.1477**	**5.6000e-004**	**0.1254**	**4.1000e-004**	**0.1258**	**0.0321**	**3.8000e-004**	**0.0325**		**56.1386**	**56.1386**	**1.0100e-003**		**56.1639**

3.9 Pump Station Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	27.8610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**28.0417**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0184	9.8200e-003	0.1477	5.6000e-004	0.0951	4.1000e-004	0.0955	0.0247	3.8000e-004	0.0250		56.1386	56.1386	1.0100e-003		56.1639
Total	**0.0184**	**9.8200e-003**	**0.1477**	**5.6000e-004**	**0.0951**	**4.1000e-004**	**0.0955**	**0.0247**	**3.8000e-004**	**0.0250**		**56.1386**	**56.1386**	**1.0100e-003**		**56.1639**

3.10 Pump Station Demolition - 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					0.4422	0.0000	0.4422	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	0.3054	2.7465	4.4915	7.2900e-003		0.1218	0.1218		0.1120	0.1120		705.1653	705.1653	0.2281		710.8669
Total	**0.3054**	**2.7465**	**4.4915**	**7.2900e-003**	**0.4422**	**0.1218**	**0.5639**	**0.0670**	**0.1120**	**0.1790**		**705.1653**	**705.1653**	**0.2281**		**710.8669**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.3200e-003	0.2904	0.1405	1.4300e-003	0.0356	5.7000e-004	0.0362	9.7400e-003	5.5000e-004	0.0103		160.8632	160.8632	0.0170		161.2878
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0235	0.0120	0.1838	7.2000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		71.8248	71.8248	1.2300e-003		71.8557
Total	**0.0328**	**0.3024**	**0.3243**	**2.1500e-003**	**0.1250**	**1.1100e-003**	**0.1261**	**0.0335**	**1.0500e-003**	**0.0345**		**232.6880**	**232.6880**	**0.0182**		**233.1435**

3.10 Pump Station Demolition - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1638	0.0000	0.1638	0.0248	0.0000	0.0248			0.0000			0.0000
Off-Road	0.3054	2.7465	4.4915	7.2900e-003		0.1218	0.1218		0.1120	0.1120	0.0000	705.1653	705.1653	0.2281		710.8669
Total	**0.3054**	**2.7465**	**4.4915**	**7.2900e-003**	**0.1638**	**0.1218**	**0.2856**	**0.0248**	**0.1120**	**0.1368**	**0.0000**	**705.1653**	**705.1653**	**0.2281**		**710.8669**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.3200e-003	0.2904	0.1405	1.4300e-003	0.0286	5.7000e-004	0.0291	8.0200e-003	5.5000e-004	8.5700e-003		160.8632	160.8632	0.0170		161.2878
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0235	0.0120	0.1838	7.2000e-004	0.0692	5.4000e-004	0.0698	0.0188	5.0000e-004	0.0193		71.8248	71.8248	1.2300e-003		71.8557
Total	**0.0328**	**0.3024**	**0.3243**	**2.1500e-003**	**0.0978**	**1.1100e-003**	**0.0989**	**0.0268**	**1.0500e-003**	**0.0278**		**232.6880**	**232.6880**	**0.0182**		**233.1435**

3.11 Generator and Odor Control 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	0.6353	6.0738	8.1141	0.0141		0.2512	0.2512		0.2371	0.2371		1,350.8008	1,350.8008	0.3047		1,358.4173
Total	**0.6353**	**6.0738**	**8.1141**	**0.0141**		**0.2512**	**0.2512**		**0.2371**	**0.2371**		**1,350.8008**	**1,350.8008**	**0.3047**		**1,358.4173**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9900e-003	0.3265	0.1110	1.1600e-003	0.0319	3.9000e-004	0.0323	9.1900e-003	3.7000e-004	9.5600e-003		127.2149	127.2149	9.2200e-003		127.4455
Worker	0.0381	0.0195	0.2987	1.1700e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0394		116.7154	116.7154	2.0000e-003		116.7655
Total	**0.0471**	**0.3460**	**0.4096**	**2.3300e-003**	**0.1773**	**1.2700e-003**	**0.1785**	**0.0477**	**1.1800e-003**	**0.0489**		**243.9302**	**243.9302**	**0.0112**		**244.2110**

3.11 Generator and Odor Control Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6353	6.0738	8.1141	0.0141		0.2512	0.2512		0.2371	0.2371	0.0000	1,350.8008	1,350.8008	0.3047		1,358.4173
Total	**0.6353**	**6.0738**	**8.1141**	**0.0141**		**0.2512**	**0.2512**		**0.2371**	**0.2371**	**0.0000**	**1,350.8008**	**1,350.8008**	**0.3047**		**1,358.4173**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.9900e-003	0.3265	0.1110	1.1600e-003	0.0260	3.9000e-004	0.0264	7.7400e-003	3.7000e-004	8.1100e-003		127.2149	127.2149	9.2200e-003		127.4455
Worker	0.0381	0.0195	0.2987	1.1700e-003	0.1125	8.8000e-004	0.1133	0.0305	8.1000e-004	0.0313		116.7154	116.7154	2.0000e-003		116.7655
Total	**0.0471**	**0.3460**	**0.4096**	**2.3300e-003**	**0.1385**	**1.2700e-003**	**0.1397**	**0.0382**	**1.1800e-003**	**0.0394**		**243.9302**	**243.9302**	**0.0112**		**244.2110**

3.11 Generator and Odor Control Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6353	6.0738	8.1141	0.0141		0.2512	0.2512		0.2371	0.2371		1,350.8008	1,350.8008	0.3047		1,358.4173
Total	**0.6353**	**6.0738**	**8.1141**	**0.0141**		**0.2512**	**0.2512**		**0.2371**	**0.2371**		**1,350.8008**	**1,350.8008**	**0.3047**		**1,358.4173**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.7800e-003	0.3222	0.1101	1.1500e-003	0.0319	3.8000e-004	0.0323	9.1900e-003	3.6000e-004	9.5500e-003		126.4532	126.4532	9.1000e-003		126.6808
Worker	0.0366	0.0180	0.2805	1.1300e-003	0.1453	8.5000e-004	0.1462	0.0385	7.9000e-004	0.0393		112.4939	112.4939	1.8400e-003		112.5400
Total	**0.0454**	**0.3402**	**0.3906**	**2.2800e-003**	**0.1773**	**1.2300e-003**	**0.1785**	**0.0477**	**1.1500e-003**	**0.0489**		**238.9472**	**238.9472**	**0.0109**		**239.2208**

3.11 Generator and Odor Control Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6353	6.0738	8.1141	0.0141		0.2512	0.2512		0.2371	0.2371	0.0000	1,350.8008	1,350.8008	0.3047		1,358.4173
Total	**0.6353**	**6.0738**	**8.1141**	**0.0141**		**0.2512**	**0.2512**		**0.2371**	**0.2371**	**0.0000**	**1,350.8008**	**1,350.8008**	**0.3047**		**1,358.4173**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.7800e-003	0.3222	0.1101	1.1500e-003	0.0260	3.8000e-004	0.0264	7.7400e-003	3.6000e-004	8.1000e-003		126.4532	126.4532	9.1000e-003		126.6808
Worker	0.0366	0.0180	0.2805	1.1300e-003	0.1125	8.5000e-004	0.1133	0.0305	7.9000e-004	0.0313		112.4939	112.4939	1.8400e-003		112.5400
Total	**0.0454**	**0.3402**	**0.3906**	**2.2800e-003**	**0.1385**	**1.2300e-003**	**0.1397**	**0.0382**	**1.1500e-003**	**0.0394**		**238.9472**	**238.9472**	**0.0109**		**239.2208**

3.12 Permanent Gravity Sewer Trenching - 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	1.8240	17.1190	17.1947	0.0355		0.7429	0.7429		0.7016	0.7016		3,401.0969	3,401.0969	0.7033		3,418.6804
Total	**1.8240**	**17.1190**	**17.1947**	**0.0355**		**0.7429**	**0.7429**		**0.7016**	**0.7016**		**3,401.0969**	**3,401.0969**	**0.7033**		**3,418.6804**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0345	0.5284	2.0700e-003	0.2571	1.5600e-003	0.2586	0.0682	1.4300e-003	0.0696		206.4964	206.4964	3.5500e-003		206.5851
Total	**0.0675**	**0.0345**	**0.5284**	**2.0700e-003**	**0.2571**	**1.5600e-003**	**0.2586**	**0.0682**	**1.4300e-003**	**0.0696**		**206.4964**	**206.4964**	**3.5500e-003**		**206.5851**

3.12 Permanent Gravity Sewer Trenching - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8240	17.1190	17.1947	0.0355		0.7429	0.7429		0.7016	0.7016	0.0000	3,401.0969	3,401.0969	0.7033		3,418.6804
Total	**1.8240**	**17.1190**	**17.1947**	**0.0355**		**0.7429**	**0.7429**		**0.7016**	**0.7016**	**0.0000**	**3,401.0969**	**3,401.0969**	**0.7033**		**3,418.6804**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0675	0.0345	0.5284	2.0700e-003	0.1990	1.5600e-003	0.2005	0.0539	1.4300e-003	0.0554		206.4964	206.4964	3.5500e-003		206.5851
Total	**0.0675**	**0.0345**	**0.5284**	**2.0700e-003**	**0.1990**	**1.5600e-003**	**0.2005**	**0.0539**	**1.4300e-003**	**0.0554**		**206.4964**	**206.4964**	**3.5500e-003**		**206.5851**

3.12 Permanent Gravity Sewer Trenching - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8240	17.1190	17.1947	0.0355		0.7429	0.7429		0.7016	0.7016		3,401.0969	3,401.0969	0.7033		3,418.6804
Total	**1.8240**	**17.1190**	**17.1947**	**0.0355**		**0.7429**	**0.7429**		**0.7016**	**0.7016**		**3,401.0969**	**3,401.0969**	**0.7033**		**3,418.6804**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0647	0.0319	0.4962	1.9900e-003	0.2571	1.5100e-003	0.2586	0.0682	1.3900e-003	0.0696		199.0277	199.0277	3.2600e-003		199.1092
Total	**0.0647**	**0.0319**	**0.4962**	**1.9900e-003**	**0.2571**	**1.5100e-003**	**0.2586**	**0.0682**	**1.3900e-003**	**0.0696**		**199.0277**	**199.0277**	**3.2600e-003**		**199.1092**

3.12 Permanent Gravity Sewer Trenching - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8240	17.1190	17.1947	0.0355		0.7429	0.7429		0.7016	0.7016	0.0000	3,401.0969	3,401.0969	0.7033		3,418.6804
Total	**1.8240**	**17.1190**	**17.1947**	**0.0355**		**0.7429**	**0.7429**		**0.7016**	**0.7016**	**0.0000**	**3,401.0969**	**3,401.0969**	**0.7033**		**3,418.6804**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0647	0.0319	0.4962	1.9900e-003	0.1990	1.5100e-003	0.2005	0.0539	1.3900e-003	0.0553		199.0277	199.0277	3.2600e-003		199.1092
Total	**0.0647**	**0.0319**	**0.4962**	**1.9900e-003**	**0.1990**	**1.5100e-003**	**0.2005**	**0.0539**	**1.3900e-003**	**0.0553**		**199.0277**	**199.0277**	**3.2600e-003**		**199.1092**

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	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	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Other Asphalt Surfaces	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.1500e-003	0.0650	0.0546	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003		77.9939	77.9939	1.4900e-003	1.4300e-003	78.4574
NaturalGas Unmitigated	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1900e-003	6.1900e-003		6.1900e-003	6.1900e-003		97.6793	97.6793	1.8700e-003	1.7900e-003	98.2598

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	830.274	8.9500e-003	0.0814	0.0684	4.9000e-004		6.1900e-003	6.1900e-003		6.1900e-003	6.1900e-003		97.6793	97.6793	1.8700e-003	1.7900e-003	98.2598
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		**8.9500e-003**	**0.0814**	**0.0684**	**4.9000e-004**		**6.1900e-003**	**6.1900e-003**		**6.1900e-003**	**6.1900e-003**		**97.6793**	**97.6793**	**1.8700e-003**	**1.7900e-003**	**98.2598**

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	0.662948	7.1500e-003	0.0650	0.0546	3.9000e-004		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003		77.9939	77.9939	1.4900e-003	1.4300e-003	78.4574
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		**7.1500e-003**	**0.0650**	**0.0546**	**3.9000e-004**		**4.9400e-003**	**4.9400e-003**		**4.9400e-003**	**4.9400e-003**		**77.9939**	**77.9939**	**1.4900e-003**	**1.4300e-003**	**78.4574**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3313	3.0000e-005	3.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.6900e-003	6.6900e-003	2.0000e-005		7.1300e-003
Unmitigated	0.3313	3.0000e-005	3.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.6900e-003	6.6900e-003	2.0000e-005		7.1300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2928					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9000e-004	3.0000e-005	3.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.6900e-003	6.6900e-003	2.0000e-005		7.1300e-003
Total	**0.3313**	**3.0000e-005**	**3.1100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**6.6900e-003**	**6.6900e-003**	**2.0000e-005**		**7.1300e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2928					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.9000e-004	3.0000e-005	3.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.6900e-003	6.6900e-003	2.0000e-005		7.1300e-003
Total	**0.3313**	**3.0000e-005**	**3.1100e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**6.6900e-003**	**6.6900e-003**	**2.0000e-005**		**7.1300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Bay Bridge

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	14.50	1000sqft	0.33	14,500.00	0
Other Asphalt Surfaces	16.09	1000sqft	0.37	16,085.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	513	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor Source: Southern California Edison, 2018 Sustainability Report, dated May 2019.

Land Use -

Construction Phase - Applicant construction schedule.

Off-road Equipment - Per construction questionnaire. Dredge [500 HP], sheeting driver [475 HP], and vibratory hammer pile driver [475 HP] modeled as "Other Construction Equipment".

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = vibratory hammer pile driver

Off-road Equipment - Per construction questionnaire. Vibratory hammer pile driver modeled as "Other Construction Equipment".

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = microtunneling machine

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = vibratory hammer pile driver

Off-road Equipment - Per construction questionnaire.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = vibratory hammer pile driver

Off-road Equipment - Per construction questionnaire. "Other Construction Equipment" = vibratory hammer pile driver

Demolition -

Trips and VMT -

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Energy Mitigation - % Improvement based on efficiency of 2019 Title 24 Standards compared to 2016 Title 24 Standards.

Grading -

Vehicle Trips - The project would not generate additional vehicle trips above existing conditions.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	107.00
tblConstructionPhase	NumDays	100.00	155.00
tblConstructionPhase	NumDays	10.00	89.00
tblConstructionPhase	NumDays	2.00	260.00
tblGrading	MaterialExported	0.00	3,850.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	118.00
tblOffRoadEquipment	HorsePower	172.00	500.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	HorsePower	172.00	475.00
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.50
tblOffRoadEquipment	LoadFactor	0.42	0.05
tblOffRoadEquipment	LoadFactor	0.42	0.05
tblOffRoadEquipment	LoadFactor	0.42	0.05
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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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
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
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	2.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	PhaseName		Pump Station Earthwork & Below Grade Concrete Construction
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tblOffRoadEquipment	PhaseName		Pump Station Earthwork & Below Grade Concrete Construction
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay

tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching East of Newport Bay
tblOffRoadEquipment	PhaseName		Microtunneling Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Dredging Only
tblOffRoadEquipment	PhaseName		Pump Station Above Grade Building Construction including MEP
tblOffRoadEquipment	PhaseName		Pump Station Above Grade Building Construction including MEP
tblOffRoadEquipment	PhaseName		Pump Station Above Grade Building Construction including MEP
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tblOffRoadEquipment	PhaseName		Force Main Pipeline Trenching West of Newport Bay
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tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
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tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Temporary Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Pump Station Demolition

tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Permanent Gravity Sewer Trenching
tblOffRoadEquipment	PhaseName		Generator and Odor Control Building Construction
tblOffRoadEquipment	UsageHours	1.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	513
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					
2023	0.3860	3.6522	3.4063	7.5500e-003	0.0404	0.1691	0.2095	0.0116	0.1587	0.1703	0.0000	661.2914	661.2914	0.1582	0.0000	665.2459
2024	0.6077	4.9642	5.2170	0.0117	0.0667	0.2153	0.2820	0.0186	0.2031	0.2217	0.0000	1,021.6715	1,021.6715	0.2281	0.0000	1,027.3750
2025	0.0783	0.7170	0.8752	1.7600e-003	0.0363	0.0298	0.0661	7.4400e-003	0.0280	0.0355	0.0000	155.4811	155.4811	0.0332	0.0000	156.3109
2026	0.0426	0.3941	0.4661	9.3000e-004	8.3500e-003	0.0163	0.0246	2.2400e-003	0.0154	0.0176	0.0000	81.8345	81.8345	0.0162	0.0000	82.2399
Maximum	**0.6077**	**4.9642**	**5.2170**	**0.0117**	**0.0667**	**0.2153**	**0.2820**	**0.0186**	**0.2031**	**0.2217**	**0.0000**	**1,021.6715**	**1,021.6715**	**0.2281**	**0.0000**	**1,027.3750**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3860	3.6522	3.4063	7.5500e-003	0.0300	0.1691	0.1991	8.4300e-003	0.1587	0.1671	0.0000	661.2907	661.2907	0.1582	0.0000	665.2452
2024	0.6077	4.9642	5.2170	0.0117	0.0505	0.2153	0.2657	0.0140	0.2031	0.2171	0.0000	1,021.6703	1,021.6703	0.2281	0.0000	1,027.3739
2025	0.0783	0.7170	0.8752	1.7600e-003	0.0203	0.0298	0.0501	4.6600e-003	0.0280	0.0327	0.0000	155.4810	155.4810	0.0332	0.0000	156.3107
2026	0.0426	0.3941	0.4661	9.3000e-004	6.5100e-003	0.0163	0.0228	1.7900e-003	0.0154	0.0172	0.0000	81.8344	81.8344	0.0162	0.0000	82.2398
Maximum	**0.6077**	**4.9642**	**5.2170**	**0.0117**	**0.0505**	**0.2153**	**0.2657**	**0.0140**	**0.2031**	**0.2171**	**0.0000**	**1,021.6703**	**1,021.6703**	**0.2281**	**0.0000**	**1,027.3739**

	ROG	NOx	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**	**29.35**	**0.00**	**7.65**	**27.38**	**0.00**	**2.45**	**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)
10	**4-30-2023**	**7-29-2023**	0.7179	0.7179
11	**7-30-2023**	**10-29-2023**	2.0495	2.0495
12	**10-30-2023**	**1-29-2024**	1.8074	1.8074
13	**1-30-2024**	**4-29-2024**	1.6194	1.6194
14	**4-30-2024**	**7-29-2024**	1.3820	1.3820
15	**7-30-2024**	**10-29-2024**	1.0782	1.0782
16	**10-30-2024**	**1-29-2025**	1.0039	1.0039
17	**1-30-2025**	**4-29-2025**	0.0051	0.0051

18	**4-30-2025**	**7-29-2025**	0.0351	0.0351
19	**7-30-2025**	**10-29-2025**	0.1114	0.1114
20	**10-30-2025**	**1-29-2026**	0.8433	0.8433
21	**1-30-2026**	**4-29-2026**	0.1683	0.1683
		Highest	2.0495	2.0495

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	0.0604	0.0000	3.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.6000e-004	7.6000e-004	0.0000	0.0000	8.1000e-004
Energy	1.6300e-003	0.0149	0.0125	9.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	44.6826	44.6826	1.9200e-003	6.3000e-004	44.9184
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	3.6498	0.0000	3.6498	0.2157	0.0000	9.0422
Water						0.0000	0.0000		0.0000	0.0000	1.0638	10.1596	11.2234	0.1098	2.7000e-003	14.7735
Total	**0.0621**	**0.0149**	**0.0129**	**9.0000e-005**	**0.0000**	**1.1300e-003**	**1.1300e-003**	**0.0000**	**1.1300e-003**	**1.1300e-003**	**4.7136**	**54.8430**	**59.5566**	**0.3275**	**3.3300e-003**	**68.7349**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0604	0.0000	3.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.6000e-004	7.6000e-004	0.0000	0.0000	8.1000e-004
Energy	1.3000e-003	0.0119	9.9600e-003	7.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	39.7736	39.7736	1.7700e-003	5.5000e-004	39.9819
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	1.8249	0.0000	1.8249	0.1079	0.0000	4.5211
Water						0.0000	0.0000		0.0000	0.0000	0.8510	8.1277	8.9787	0.0879	2.1600e-003	11.8188
Total	**0.0617**	**0.0119**	**0.0104**	**7.0000e-005**	**0.0000**	**9.0000e-004**	**9.0000e-004**	**0.0000**	**9.0000e-004**	**9.0000e-004**	**2.6759**	**47.9020**	**50.5779**	**0.1975**	**2.7100e-003**	**56.3226**

	ROG	NOx	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	**0.53**	**20.19**	**19.58**	**22.22**	**0.00**	**20.35**	**20.35**	**0.00**	**20.35**	**20.35**	**43.23**	**12.66**	**15.08**	**39.69**	**18.62**	**18.06**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Force Main Pipeline Trenching East of Newport Bay	Trenching	7/1/2023	12/29/2023	5	130	
2	Microtunneling Only	Trenching	7/1/2023	9/1/2023	5	45	
3	Pump Station Earthwork & Below Grade Concrete Construction	Grading	7/1/2023	6/28/2024	5	260	
4	Dredging Only	Trenching	1/1/2024	6/28/2024	5	130	
5	Force Main Pipeline Trenching West of Newport Bay	Trenching	7/1/2024	9/30/2024	5	66	
6	Pump Station Above Grade Building Construction including MEP	Building Construction	7/1/2024	1/31/2025	5	155	
7	Temporary Gravity Sewer Trenching	Trenching	10/1/2024	12/31/2024	5	66	
8	Pump Station Architectural Coating	Architectural Coating	11/1/2024	11/7/2024	5	5	
9	Pump Station Demolition	Demolition	7/1/2025	10/31/2025	5	89	
10	Generator and Odor Control Building Construction	Building Construction	11/1/2025	3/31/2026	5	107	
11	Permanent Gravity Sewer Trenching	Trenching	11/1/2025	1/31/2026	5	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.37

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 21,750; Non-Residential Outdoor: 7,250; Striped Parking Area: 1,055 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Pump Station Earthwork & Below Grade Concrete Construction	Concrete/Industrial Saws	0	8.00	81	0.73
Pump Station Earthwork & Below Grade Concrete Construction	Cranes	1	6.00	231	0.29

Pump Station Earthwork & Below Grade Concrete Construction	Excavators	1	6.00	158	0.38
Pump Station Earthwork & Below Grade Concrete Construction	Other Construction Equipment	1	6.00	475	0.50
Pump Station Earthwork & Below Grade Concrete Construction	Pumps	3	6.00	84	0.74
Pump Station Earthwork & Below Grade Concrete Construction	Rollers	1	8.00	80	0.38
Pump Station Earthwork & Below Grade Concrete Construction	Rubber Tired Dozers	1	8.00	247	0.40
Pump Station Earthwork & Below Grade Concrete Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Force Main Pipeline Trenching East of Newport Bay	Cranes	1	6.00	231	0.29
Force Main Pipeline Trenching East of Newport Bay	Excavators	1	8.00	158	0.38
Force Main Pipeline Trenching East of Newport Bay	Other Construction Equipment	1	6.00	475	0.50
Force Main Pipeline Trenching East of Newport Bay	Pumps	3	6.00	84	0.74
Force Main Pipeline Trenching East of Newport Bay	Rollers	1	8.00	80	0.38
Force Main Pipeline Trenching East of Newport Bay	Rubber Tired Dozers	1	8.00	247	0.40
Force Main Pipeline Trenching East of Newport Bay	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Microtunneling Only	Other Construction Equipment	1	24.00	118	0.42
Dredging Only	Cranes	1	6.00	231	0.29
Dredging Only	Other Construction Equipment	1	8.00	500	0.50
Dredging Only	Other Construction Equipment	2	8.00	475	0.05
Dredging Only	Pumps	3	6.00	84	0.74
Dredging Only	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Pump Station Above Grade Building Construction including MEP	Concrete/Industrial Saws	0	8.00	81	0.73
Pump Station Above Grade Building Construction including MEP	Cranes	1	4.00	231	0.29
Pump Station Above Grade Building Construction including MEP	Forklifts	0	6.00	89	0.20
Pump Station Above Grade Building Construction including MEP	Pumps	1	6.00	84	0.74

Pump Station Above Grade Building Construction including MEP	Rubber Tired Dozers	0	1.00	247	0.40
Pump Station Above Grade Building Construction including MEP	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Force Main Pipeline Trenching West of Newport Bay	Cranes	1	6.00	231	0.29
Force Main Pipeline Trenching West of Newport Bay	Excavators	1	8.00	158	0.38
Force Main Pipeline Trenching West of Newport Bay	Other Construction Equipment	1	8.00	475	0.05
Force Main Pipeline Trenching West of Newport Bay	Pumps	3	8.00	84	0.74
Force Main Pipeline Trenching West of Newport Bay	Rollers	1	6.00	80	0.38
Force Main Pipeline Trenching West of Newport Bay	Rubber Tired Dozers	1	6.00	247	0.40
Force Main Pipeline Trenching West of Newport Bay	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Temporary Gravity Sewer Trenching	Cranes	1	6.00	231	0.29
Temporary Gravity Sewer Trenching	Excavators	1	8.00	158	0.38
Temporary Gravity Sewer Trenching	Other Construction Equipment	1	8.00	475	0.42
Temporary Gravity Sewer Trenching	Pumps	3	8.00	84	0.74
Temporary Gravity Sewer Trenching	Rollers	1	6.00	80	0.38
Temporary Gravity Sewer Trenching	Rubber Tired Dozers	1	8.00	247	0.40
Temporary Gravity Sewer Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Pump Station Architectural Coating	Air Compressors	1	6.00	78	0.48
Pump Station Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Pump Station Demolition	Excavators	1	6.00	158	0.38
Pump Station Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Pump Station Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Permanent Gravity Sewer Trenching	Cranes	1	6.00	231	0.29
Permanent Gravity Sewer Trenching	Excavators	1	6.00	158	0.38
Permanent Gravity Sewer Trenching	Other Construction Equipment	1	6.00	475	0.05
Permanent Gravity Sewer Trenching	Pumps	3	6.00	84	0.74

Permanent Gravity Sewer Trenching	Rollers	1	6.00	80	0.38
Permanent Gravity Sewer Trenching	Rubber Tired Dozers	1	8.00	247	0.40
Permanent Gravity Sewer Trenching	Tractors/Loaders/Backhoes	1	1.00	97	0.37
Generator and Odor Control Building Construction	Cranes	1	4.00	231	0.29
Generator and Odor Control Building Construction	Forklifts	0	6.00	89	0.20
Generator and Odor Control Building Construction	Pumps	1	6.00	84	0.74
Generator and Odor Control Building Construction	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
Pump Station Earthwork & Below Gr	9	23.00	0.00	481.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Force Main Pipeline Trenching East of Ne	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Microtunneling Only	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Dredging Only	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Above Grade Building Constr	4	13.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Force Main Pipeline Trenching West of Ne	10	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Temporary Gravity Sewer Trenching	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pump Station Demolition	3	8.00	0.00	182.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Permanent Gravity Sewer Trenching	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Generator and Odor Control Building Const	4	13.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Force Main Pipeline Trenching East of Newport Bay - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.7271	1.5984	3.5100e-003		0.0780	0.0780		0.0734	0.0734	0.0000	306.6113	306.6113	0.0762	0.0000	308.5166
Total	**0.1785**	**1.7271**	**1.5984**	**3.5100e-003**		**0.0780**	**0.0780**		**0.0734**	**0.0734**	**0.0000**	**306.6113**	**306.6113**	**0.0762**	**0.0000**	**308.5166**

3.2 Force Main Pipeline Trenching East of Newport Bay - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9100e-003	3.0300e-003	0.0373	1.4000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	1.0000e-004	4.4500e-003	0.0000	12.6972	12.6972	2.4000e-004	0.0000	12.7032
Total	**4.9100e-003**	**3.0300e-003**	**0.0373**	**1.4000e-004**	**0.0164**	**1.0000e-004**	**0.0165**	**4.3600e-003**	**1.0000e-004**	**4.4500e-003**	**0.0000**	**12.6972**	**12.6972**	**2.4000e-004**	**0.0000**	**12.7032**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1785	1.7271	1.5984	3.5100e-003		0.0780	0.0780		0.0734	0.0734	0.0000	306.6109	306.6109	0.0762	0.0000	308.5162
Total	**0.1785**	**1.7271**	**1.5984**	**3.5100e-003**		**0.0780**	**0.0780**		**0.0734**	**0.0734**	**0.0000**	**306.6109**	**306.6109**	**0.0762**	**0.0000**	**308.5162**

3.2 Force Main Pipeline Trenching East of Newport Bay - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9100e-003	3.0300e-003	0.0373	1.4000e-004	0.0127	1.0000e-004	0.0128	3.4500e-003	1.0000e-004	3.5500e-003	0.0000	12.6972	12.6972	2.4000e-004	0.0000	12.7032
Total	**4.9100e-003**	**3.0300e-003**	**0.0373**	**1.4000e-004**	**0.0127**	**1.0000e-004**	**0.0128**	**3.4500e-003**	**1.0000e-004**	**3.5500e-003**	**0.0000**	**12.6972**	**12.6972**	**2.4000e-004**	**0.0000**	**12.7032**

3.3 Microtunneling Only - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0239	0.2236	0.2143	2.9000e-004		0.0153	0.0153		0.0141	0.0141	0.0000	25.2632	25.2632	8.1700e-003	0.0000	25.4674
Total	**0.0239**	**0.2236**	**0.2143**	**2.9000e-004**		**0.0153**	**0.0153**		**0.0141**	**0.0141**	**0.0000**	**25.2632**	**25.2632**	**8.1700e-003**	**0.0000**	**25.4674**

3.3 Microtunneling Only - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.4000e-004	1.6800e-003	1.0000e-005	7.4000e-004	0.0000	7.5000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.5733	0.5733	1.0000e-005	0.0000	0.5736
Total	**2.2000e-004**	**1.4000e-004**	**1.6800e-003**	**1.0000e-005**	**7.4000e-004**	**0.0000**	**7.5000e-004**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.5733**	**0.5733**	**1.0000e-005**	**0.0000**	**0.5736**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0239	0.2236	0.2143	2.9000e-004		0.0153	0.0153		0.0141	0.0141	0.0000	25.2631	25.2631	8.1700e-003	0.0000	25.4674
Total	**0.0239**	**0.2236**	**0.2143**	**2.9000e-004**		**0.0153**	**0.0153**		**0.0141**	**0.0141**	**0.0000**	**25.2631**	**25.2631**	**8.1700e-003**	**0.0000**	**25.4674**

3.3 Microtunneling Only - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.4000e-004	1.6800e-003	1.0000e-005	5.7000e-004	0.0000	5.8000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5733	0.5733	1.0000e-005	0.0000	0.5736
Total	**2.2000e-004**	**1.4000e-004**	**1.6800e-003**	**1.0000e-005**	**5.7000e-004**	**0.0000**	**5.8000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5733**	**0.5733**	**1.0000e-005**	**0.0000**	**0.5736**

3.4 Pump Station Earthwork & Below Grade Concrete Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.2300e-003	0.0000	3.2300e-003	1.6900e-003	0.0000	1.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1730	1.6770	1.5092	3.3800e-003		0.0756	0.0756		0.0711	0.0711	0.0000	294.7931	294.7931	0.0724	0.0000	296.6028
Total	**0.1730**	**1.6770**	**1.5092**	**3.3800e-003**	**3.2300e-003**	**0.0756**	**0.0788**	**1.6900e-003**	**0.0711**	**0.0728**	**0.0000**	**294.7931**	**294.7931**	**0.0724**	**0.0000**	**296.6028**

3.4 Pump Station Earthwork & Below Grade Concrete Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	0.0184	8.1600e-003	8.0000e-005	3.6200e-003	4.0000e-005	3.6500e-003	9.5000e-004	3.0000e-005	9.8000e-004	0.0000	8.6563	8.6563	9.1000e-004	0.0000	8.6792
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9100e-003	3.0300e-003	0.0373	1.4000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	1.0000e-004	4.4500e-003	0.0000	12.6972	12.6972	2.4000e-004	0.0000	12.7032
Total	**5.4800e-003**	**0.0214**	**0.0455**	**2.2000e-004**	**0.0200**	**1.4000e-004**	**0.0202**	**5.3100e-003**	**1.3000e-004**	**5.4300e-003**	**0.0000**	**21.3535**	**21.3535**	**1.1500e-003**	**0.0000**	**21.3824**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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-003	0.0000	1.2000e-003	6.3000e-004	0.0000	6.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1730	1.6770	1.5092	3.3800e-003		0.0756	0.0756		0.0711	0.0711	0.0000	294.7927	294.7927	0.0724	0.0000	296.6024
Total	**0.1730**	**1.6770**	**1.5092**	**3.3800e-003**	**1.2000e-003**	**0.0756**	**0.0768**	**6.3000e-004**	**0.0711**	**0.0717**	**0.0000**	**294.7927**	**294.7927**	**0.0724**	**0.0000**	**296.6024**

3.4 Pump Station Earthwork & Below Grade Concrete Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.7000e-004	0.0184	8.1600e-003	8.0000e-005	2.8100e-003	4.0000e-005	2.8400e-003	7.5000e-004	3.0000e-005	7.8000e-004	0.0000	8.6563	8.6563	9.1000e-004	0.0000	8.6792
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9100e-003	3.0300e-003	0.0373	1.4000e-004	0.0127	1.0000e-004	0.0128	3.4500e-003	1.0000e-004	3.5500e-003	0.0000	12.6972	12.6972	2.4000e-004	0.0000	12.7032
Total	**5.4800e-003**	**0.0214**	**0.0455**	**2.2000e-004**	**0.0155**	**1.4000e-004**	**0.0157**	**4.2000e-003**	**1.3000e-004**	**4.3300e-003**	**0.0000**	**21.3535**	**21.3535**	**1.1500e-003**	**0.0000**	**21.3824**

3.4 Pump Station Earthwork & Below Grade Concrete 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					
Fugitive Dust					3.2300e-003	0.0000	3.2300e-003	1.6900e-003	0.0000	1.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1671	1.5918	1.5048	3.3800e-003		0.0701	0.0701		0.0659	0.0659	0.0000	294.8645	294.8645	0.0723	0.0000	296.6712
Total	**0.1671**	**1.5918**	**1.5048**	**3.3800e-003**	**3.2300e-003**	**0.0701**	**0.0734**	**1.6900e-003**	**0.0659**	**0.0676**	**0.0000**	**294.8645**	**294.8645**	**0.0723**	**0.0000**	**296.6712**

3.4 Pump Station Earthwork & Below Grade Concrete Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6000e-004	0.0179	8.2500e-003	8.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.5000e-004	3.0000e-005	9.8000e-004	0.0000	8.5832	8.5832	9.1000e-004	0.0000	8.6060
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6800e-003	2.7600e-003	0.0347	1.3000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	9.0000e-005	4.4500e-003	0.0000	12.1941	12.1941	2.2000e-004	0.0000	12.1996
Total	**5.2400e-003**	**0.0207**	**0.0429**	**2.1000e-004**	**0.0200**	**1.3000e-004**	**0.0202**	**5.3100e-003**	**1.2000e-004**	**5.4300e-003**	**0.0000**	**20.7773**	**20.7773**	**1.1300e-003**	**0.0000**	**20.8056**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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-003	0.0000	1.2000e-003	6.3000e-004	0.0000	6.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1671	1.5917	1.5048	3.3800e-003		0.0701	0.0701		0.0659	0.0659	0.0000	294.8642	294.8642	0.0723	0.0000	296.6708
Total	**0.1671**	**1.5917**	**1.5048**	**3.3800e-003**	**1.2000e-003**	**0.0701**	**0.0713**	**6.3000e-004**	**0.0659**	**0.0665**	**0.0000**	**294.8642**	**294.8642**	**0.0723**	**0.0000**	**296.6708**

3.4 Pump Station Earthwork & Below Grade Concrete Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6000e-004	0.0179	8.2500e-003	8.0000e-005	2.8100e-003	3.0000e-005	2.8400e-003	7.5000e-004	3.0000e-005	7.8000e-004	0.0000	8.5832	8.5832	9.1000e-004	0.0000	8.6060
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6800e-003	2.7600e-003	0.0347	1.3000e-004	0.0127	1.0000e-004	0.0128	3.4500e-003	9.0000e-005	3.5400e-003	0.0000	12.1941	12.1941	2.2000e-004	0.0000	12.1996
Total	**5.2400e-003**	**0.0207**	**0.0429**	**2.1000e-004**	**0.0155**	**1.3000e-004**	**0.0157**	**4.2000e-003**	**1.2000e-004**	**4.3200e-003**	**0.0000**	**20.7773**	**20.7773**	**1.1300e-003**	**0.0000**	**20.8056**

3.5 Dredging Only - 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	0.1393	1.3081	1.3927	3.3300e-003		0.0549	0.0549		0.0518	0.0518	0.0000	290.3876	290.3876	0.0708	0.0000	292.1581
Total	**0.1393**	**1.3081**	**1.3927**	**3.3300e-003**		**0.0549**	**0.0549**		**0.0518**	**0.0518**	**0.0000**	**290.3876**	**290.3876**	**0.0708**	**0.0000**	**292.1581**

3.5 Dredging Only - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0700e-003	2.4000e-003	0.0302	1.2000e-004	0.0143	9.0000e-005	0.0144	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	10.6036	10.6036	1.9000e-004	0.0000	10.6083
Total	**4.0700e-003**	**2.4000e-003**	**0.0302**	**1.2000e-004**	**0.0143**	**9.0000e-005**	**0.0144**	**3.7900e-003**	**8.0000e-005**	**3.8700e-003**	**0.0000**	**10.6036**	**10.6036**	**1.9000e-004**	**0.0000**	**10.6083**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1393	1.3081	1.3927	3.3300e-003		0.0549	0.0549		0.0518	0.0518	0.0000	290.3873	290.3873	0.0708	0.0000	292.1578
Total	**0.1393**	**1.3081**	**1.3927**	**3.3300e-003**		**0.0549**	**0.0549**		**0.0518**	**0.0518**	**0.0000**	**290.3873**	**290.3873**	**0.0708**	**0.0000**	**292.1578**

3.5 Dredging Only - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0700e-003	2.4000e-003	0.0302	1.2000e-004	0.0111	9.0000e-005	0.0111	3.0000e-003	8.0000e-005	3.0800e-003	0.0000	10.6036	10.6036	1.9000e-004	0.0000	10.6083
Total	**4.0700e-003**	**2.4000e-003**	**0.0302**	**1.2000e-004**	**0.0111**	**9.0000e-005**	**0.0111**	**3.0000e-003**	**8.0000e-005**	**3.0800e-003**	**0.0000**	**10.6036**	**10.6036**	**1.9000e-004**	**0.0000**	**10.6083**

3.6 Force Main Pipeline Trenching West of Newport Bay - 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	0.0724	0.6734	0.7361	1.4100e-003		0.0305	0.0305		0.0290	0.0290	0.0000	122.7623	122.7623	0.0241	0.0000	123.3640
Total	**0.0724**	**0.6734**	**0.7361**	**1.4100e-003**		**0.0305**	**0.0305**		**0.0290**	**0.0290**	**0.0000**	**122.7623**	**122.7623**	**0.0241**	**0.0000**	**123.3640**

3.6 Force Main Pipeline Trenching West of Newport Bay - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5800e-003	1.5200e-003	0.0191	7.0000e-005	9.0600e-003	6.0000e-005	9.1100e-003	2.4100e-003	5.0000e-005	2.4600e-003	0.0000	6.7292	6.7292	1.2000e-004	0.0000	6.7322
Total	**2.5800e-003**	**1.5200e-003**	**0.0191**	**7.0000e-005**	**9.0600e-003**	**6.0000e-005**	**9.1100e-003**	**2.4100e-003**	**5.0000e-005**	**2.4600e-003**	**0.0000**	**6.7292**	**6.7292**	**1.2000e-004**	**0.0000**	**6.7322**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0724	0.6734	0.7361	1.4100e-003		0.0305	0.0305		0.0290	0.0290	0.0000	122.7622	122.7622	0.0241	0.0000	123.3639
Total	**0.0724**	**0.6734**	**0.7361**	**1.4100e-003**		**0.0305**	**0.0305**		**0.0290**	**0.0290**	**0.0000**	**122.7622**	**122.7622**	**0.0241**	**0.0000**	**123.3639**

3.6 Force Main Pipeline Trenching West of Newport Bay - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5800e-003	1.5200e-003	0.0191	7.0000e-005	7.0200e-003	6.0000e-005	7.0700e-003	1.9000e-003	5.0000e-005	1.9600e-003	0.0000	6.7292	6.7292	1.2000e-004	0.0000	6.7322
Total	**2.5800e-003**	**1.5200e-003**	**0.0191**	**7.0000e-005**	**7.0200e-003**	**6.0000e-005**	**7.0700e-003**	**1.9000e-003**	**5.0000e-005**	**1.9600e-003**	**0.0000**	**6.7292**	**6.7292**	**1.2000e-004**	**0.0000**	**6.7322**

3.7 Pump Station Above Grade Building Construction including MEP - 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	0.0451	0.4345	0.5378	9.3000e-004		0.0194	0.0194		0.0183	0.0183	0.0000	80.8429	80.8429	0.0183	0.0000	81.3011
Total	**0.0451**	**0.4345**	**0.5378**	**9.3000e-004**		**0.0194**	**0.0194**		**0.0183**	**0.0183**	**0.0000**	**80.8429**	**80.8429**	**0.0183**	**0.0000**	**81.3011**

3.7 Pump Station Above Grade Building Construction including MEP - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2000e-004	0.0220	7.7200e-003	8.0000e-005	2.0800e-003	3.0000e-005	2.1000e-003	6.0000e-004	3.0000e-005	6.2000e-004	0.0000	7.5867	7.5867	5.7000e-004	0.0000	7.6010
Worker	2.6800e-003	1.5800e-003	0.0199	8.0000e-005	9.4200e-003	6.0000e-005	9.4800e-003	2.5000e-003	5.0000e-005	2.5600e-003	0.0000	6.9984	6.9984	1.3000e-004	0.0000	7.0015
Total	**3.3000e-003**	**0.0236**	**0.0276**	**1.6000e-004**	**0.0115**	**9.0000e-005**	**0.0116**	**3.1000e-003**	**8.0000e-005**	**3.1800e-003**	**0.0000**	**14.5851**	**14.5851**	**7.0000e-004**	**0.0000**	**14.6025**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0451	0.4345	0.5378	9.3000e-004		0.0194	0.0194		0.0183	0.0183	0.0000	80.8428	80.8428	0.0183	0.0000	81.3010
Total	**0.0451**	**0.4345**	**0.5378**	**9.3000e-004**		**0.0194**	**0.0194**		**0.0183**	**0.0183**	**0.0000**	**80.8428**	**80.8428**	**0.0183**	**0.0000**	**81.3010**

3.7 Pump Station Above Grade Building Construction including MEP - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2000e-004	0.0220	7.7200e-003	8.0000e-005	1.6900e-003	3.0000e-005	1.7200e-003	5.1000e-004	3.0000e-005	5.3000e-004	0.0000	7.5867	7.5867	5.7000e-004	0.0000	7.6010
Worker	2.6800e-003	1.5800e-003	0.0199	8.0000e-005	7.3000e-003	6.0000e-005	7.3500e-003	1.9800e-003	5.0000e-005	2.0300e-003	0.0000	6.9984	6.9984	1.3000e-004	0.0000	7.0015
Total	**3.3000e-003**	**0.0236**	**0.0276**	**1.6000e-004**	**8.9900e-003**	**9.0000e-005**	**9.0700e-003**	**2.4900e-003**	**8.0000e-005**	**2.5600e-003**	**0.0000**	**14.5851**	**14.5851**	**7.0000e-004**	**0.0000**	**14.6025**

3.7 Pump Station Above Grade Building Construction including MEP - 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	7.3100e-003	0.0699	0.0933	1.6000e-004		2.8900e-003	2.8900e-003		2.7300e-003	2.7300e-003	0.0000	14.0924	14.0924	3.1800e-003	0.0000	14.1719
Total	**7.3100e-003**	**0.0699**	**0.0933**	**1.6000e-004**		**2.8900e-003**	**2.8900e-003**		**2.7300e-003**	**2.7300e-003**	**0.0000**	**14.0924**	**14.0924**	**3.1800e-003**	**0.0000**	**14.1719**

3.7 Pump Station Above Grade Building Construction including MEP - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.7900e-003	1.3300e-003	1.0000e-005	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	1.3138	1.3138	1.0000e-004	0.0000	1.3163
Worker	4.5000e-004	2.5000e-004	3.2400e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.1702	1.1702	2.0000e-005	0.0000	1.1707
Total	**5.6000e-004**	**4.0400e-003**	**4.5700e-003**	**2.0000e-005**	**2.0000e-003**	**1.0000e-005**	**2.0200e-003**	**5.4000e-004**	**1.0000e-005**	**5.6000e-004**	**0.0000**	**2.4840**	**2.4840**	**1.2000e-004**	**0.0000**	**2.4869**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.3100e-003	0.0699	0.0933	1.6000e-004		2.8900e-003	2.8900e-003		2.7300e-003	2.7300e-003	0.0000	14.0924	14.0924	3.1800e-003	0.0000	14.1718
Total	**7.3100e-003**	**0.0699**	**0.0933**	**1.6000e-004**		**2.8900e-003**	**2.8900e-003**		**2.7300e-003**	**2.7300e-003**	**0.0000**	**14.0924**	**14.0924**	**3.1800e-003**	**0.0000**	**14.1718**

3.7 Pump Station Above Grade Building Construction including MEP - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.7900e-003	1.3300e-003	1.0000e-005	3.0000e-004	0.0000	3.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	1.3138	1.3138	1.0000e-004	0.0000	1.3163
Worker	4.5000e-004	2.5000e-004	3.2400e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2800e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	1.1702	1.1702	2.0000e-005	0.0000	1.1707
Total	**5.6000e-004**	**4.0400e-003**	**4.5700e-003**	**2.0000e-005**	**1.5700e-003**	**1.0000e-005**	**1.5800e-003**	**4.4000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**2.4840**	**2.4840**	**1.2000e-004**	**0.0000**	**2.4869**

3.8 Temporary Gravity Sewer Trenching - 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	0.0961	0.9037	0.9033	1.9900e-003		0.0398	0.0398		0.0375	0.0375	0.0000	173.1675	173.1675	0.0404	0.0000	174.1767
Total	**0.0961**	**0.9037**	**0.9033**	**1.9900e-003**		**0.0398**	**0.0398**		**0.0375**	**0.0375**	**0.0000**	**173.1675**	**173.1675**	**0.0404**	**0.0000**	**174.1767**

3.8 Temporary Gravity Sewer Trenching - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3700e-003	1.4000e-003	0.0176	7.0000e-005	8.3300e-003	5.0000e-005	8.3800e-003	2.2100e-003	5.0000e-005	2.2600e-003	0.0000	6.1909	6.1909	1.1000e-004	0.0000	6.1936
Total	**2.3700e-003**	**1.4000e-003**	**0.0176**	**7.0000e-005**	**8.3300e-003**	**5.0000e-005**	**8.3800e-003**	**2.2100e-003**	**5.0000e-005**	**2.2600e-003**	**0.0000**	**6.1909**	**6.1909**	**1.1000e-004**	**0.0000**	**6.1936**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0961	0.9037	0.9033	1.9900e-003		0.0398	0.0398		0.0375	0.0375	0.0000	173.1672	173.1672	0.0404	0.0000	174.1765
Total	**0.0961**	**0.9037**	**0.9033**	**1.9900e-003**		**0.0398**	**0.0398**		**0.0375**	**0.0375**	**0.0000**	**173.1672**	**173.1672**	**0.0404**	**0.0000**	**174.1765**

3.8 Temporary Gravity Sewer Trenching - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3700e-003	1.4000e-003	0.0176	7.0000e-005	6.4500e-003	5.0000e-005	6.5100e-003	1.7500e-003	5.0000e-005	1.8000e-003	0.0000	6.1909	6.1909	1.1000e-004	0.0000	6.1936
Total	**2.3700e-003**	**1.4000e-003**	**0.0176**	**7.0000e-005**	**6.4500e-003**	**5.0000e-005**	**6.5100e-003**	**1.7500e-003**	**5.0000e-005**	**1.8000e-003**	**0.0000**	**6.1909**	**6.1909**	**1.1000e-004**	**0.0000**	**6.1936**

3.9 Pump Station Architectural Coating - 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					
Archit. Coating	0.0697					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	3.0500e-003	4.5300e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6392
Total	**0.0701**	**3.0500e-003**	**4.5300e-003**	**1.0000e-005**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6392**

3.9 Pump Station Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0000e-005	3.5000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.1224	0.1224	0.0000	0.0000	0.1224
Total	**5.0000e-005**	**3.0000e-005**	**3.5000e-004**	**0.0000**	**3.1000e-004**	**0.0000**	**3.1000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.1224**	**0.1224**	**0.0000**	**0.0000**	**0.1224**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0697					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5000e-004	3.0500e-003	4.5300e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6392
Total	**0.0701**	**3.0500e-003**	**4.5300e-003**	**1.0000e-005**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6392**

3.9 Pump Station Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0000e-005	3.5000e-004	0.0000	2.3000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1224	0.1224	0.0000	0.0000	0.1224
Total	**5.0000e-005**	**3.0000e-005**	**3.5000e-004**	**0.0000**	**2.3000e-004**	**0.0000**	**2.3000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1224**	**0.1224**	**0.0000**	**0.0000**	**0.1224**

3.10 Pump Station Demolition - 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					0.0197	0.0000	0.0197	2.9800e-003	0.0000	2.9800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0136	0.1222	0.1999	3.2000e-004		5.4200e-003	5.4200e-003		4.9800e-003	4.9800e-003	0.0000	28.4673	28.4673	9.2100e-003	0.0000	28.6975
Total	**0.0136**	**0.1222**	**0.1999**	**3.2000e-004**	**0.0197**	**5.4200e-003**	**0.0251**	**2.9800e-003**	**4.9800e-003**	**7.9600e-003**	**0.0000**	**28.4673**	**28.4673**	**9.2100e-003**	**0.0000**	**28.6975**

3.10 Pump Station Demolition - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.2000e-004	0.0132	6.3400e-003	6.0000e-005	1.5600e-003	3.0000e-005	1.5900e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	6.4533	6.4533	6.9000e-004	0.0000	6.4706
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0700e-003	6.0000e-004	7.7100e-003	3.0000e-005	3.9100e-003	2.0000e-005	3.9300e-003	1.0400e-003	2.0000e-005	1.0600e-003	0.0000	2.7864	2.7864	5.0000e-005	0.0000	2.7876
Total	**1.4900e-003**	**0.0138**	**0.0141**	**9.0000e-005**	**5.4700e-003**	**5.0000e-005**	**5.5200e-003**	**1.4700e-003**	**4.0000e-005**	**1.5100e-003**	**0.0000**	**9.2397**	**9.2397**	**7.4000e-004**	**0.0000**	**9.2582**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.2900e-003	0.0000	7.2900e-003	1.1000e-003	0.0000	1.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0136	0.1222	0.1999	3.2000e-004		5.4200e-003	5.4200e-003		4.9800e-003	4.9800e-003	0.0000	28.4673	28.4673	9.2100e-003	0.0000	28.6975
Total	**0.0136**	**0.1222**	**0.1999**	**3.2000e-004**	**7.2900e-003**	**5.4200e-003**	**0.0127**	**1.1000e-003**	**4.9800e-003**	**6.0800e-003**	**0.0000**	**28.4673**	**28.4673**	**9.2100e-003**	**0.0000**	**28.6975**

3.10 Pump Station Demolition - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.2000e-004	0.0132	6.3400e-003	6.0000e-005	1.2500e-003	3.0000e-005	1.2800e-003	3.5000e-004	2.0000e-005	3.8000e-004	0.0000	6.4533	6.4533	6.9000e-004	0.0000	6.4706
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0700e-003	6.0000e-004	7.7100e-003	3.0000e-005	3.0300e-003	2.0000e-005	3.0500e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.7864	2.7864	5.0000e-005	0.0000	2.7876
Total	**1.4900e-003**	**0.0138**	**0.0141**	**9.0000e-005**	**4.2800e-003**	**5.0000e-005**	**4.3300e-003**	**1.1700e-003**	**4.0000e-005**	**1.2200e-003**	**0.0000**	**9.2397**	**9.2397**	**7.4000e-004**	**0.0000**	**9.2582**

3.11 Generator and Odor Control 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	0.0137	0.1306	0.1745	3.0000e-004		5.4000e-003	5.4000e-003		5.1000e-003	5.1000e-003	0.0000	26.3467	26.3467	5.9400e-003	0.0000	26.4952
Total	**0.0137**	**0.1306**	**0.1745**	**3.0000e-004**		**5.4000e-003**	**5.4000e-003**		**5.1000e-003**	**5.1000e-003**	**0.0000**	**26.3467**	**26.3467**	**5.9400e-003**	**0.0000**	**26.4952**

3.11 Generator and Odor Control Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	7.0800e-003	2.4800e-003	2.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	2.0000e-004	1.0000e-005	2.0000e-004	0.0000	2.4563	2.4563	1.8000e-004	0.0000	2.4609
Worker	8.4000e-004	4.7000e-004	6.0500e-003	2.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.1877	2.1877	4.0000e-005	0.0000	2.1886
Total	**1.0400e-003**	**7.5500e-003**	**8.5300e-003**	**4.0000e-005**	**3.7500e-003**	**3.0000e-005**	**3.7800e-003**	**1.0100e-003**	**3.0000e-005**	**1.0300e-003**	**0.0000**	**4.6440**	**4.6440**	**2.2000e-004**	**0.0000**	**4.6495**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0137	0.1306	0.1745	3.0000e-004		5.4000e-003	5.4000e-003		5.1000e-003	5.1000e-003	0.0000	26.3466	26.3466	5.9400e-003	0.0000	26.4952
Total	**0.0137**	**0.1306**	**0.1745**	**3.0000e-004**		**5.4000e-003**	**5.4000e-003**		**5.1000e-003**	**5.1000e-003**	**0.0000**	**26.3466**	**26.3466**	**5.9400e-003**	**0.0000**	**26.4952**

3.11 Generator and Odor Control Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	7.0800e-003	2.4800e-003	2.0000e-005	5.5000e-004	1.0000e-005	5.6000e-004	1.6000e-004	1.0000e-005	1.7000e-004	0.0000	2.4563	2.4563	1.8000e-004	0.0000	2.4609
Worker	8.4000e-004	4.7000e-004	6.0500e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.4000e-003	6.5000e-004	2.0000e-005	6.6000e-004	0.0000	2.1877	2.1877	4.0000e-005	0.0000	2.1886
Total	**1.0400e-003**	**7.5500e-003**	**8.5300e-003**	**4.0000e-005**	**2.9300e-003**	**3.0000e-005**	**2.9600e-003**	**8.1000e-004**	**3.0000e-005**	**8.3000e-004**	**0.0000**	**4.6440**	**4.6440**	**2.2000e-004**	**0.0000**	**4.6495**

3.11 Generator and Odor Control Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0203	0.1944	0.2597	4.5000e-004		8.0400e-003	8.0400e-003		7.5900e-003	7.5900e-003	0.0000	39.2136	39.2136	8.8400e-003	0.0000	39.4347
Total	**0.0203**	**0.1944**	**0.2597**	**4.5000e-004**		**8.0400e-003**	**8.0400e-003**		**7.5900e-003**	**7.5900e-003**	**0.0000**	**39.2136**	**39.2136**	**8.8400e-003**	**0.0000**	**39.4347**

3.11 Generator and Odor Control Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	0.0104	3.6700e-003	4.0000e-005	1.0100e-003	1.0000e-005	1.0200e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	3.6342	3.6342	2.7000e-004	0.0000	3.6410
Worker	1.2000e-003	6.5000e-004	8.4500e-003	3.0000e-005	4.5700e-003	3.0000e-005	4.5900e-003	1.2100e-003	3.0000e-005	1.2400e-003	0.0000	3.1384	3.1384	5.0000e-005	0.0000	3.1396
Total	**1.4900e-003**	**0.0111**	**0.0121**	**7.0000e-005**	**5.5800e-003**	**4.0000e-005**	**5.6100e-003**	**1.5000e-003**	**4.0000e-005**	**1.5400e-003**	**0.0000**	**6.7726**	**6.7726**	**3.2000e-004**	**0.0000**	**6.7806**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0203	0.1944	0.2597	4.5000e-004		8.0400e-003	8.0400e-003		7.5900e-003	7.5900e-003	0.0000	39.2136	39.2136	8.8400e-003	0.0000	39.4347
Total	**0.0203**	**0.1944**	**0.2597**	**4.5000e-004**		**8.0400e-003**	**8.0400e-003**		**7.5900e-003**	**7.5900e-003**	**0.0000**	**39.2136**	**39.2136**	**8.8400e-003**	**0.0000**	**39.4347**

3.11 Generator and Odor Control Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	0.0104	3.6700e-003	4.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.4000e-004	1.0000e-005	2.6000e-004	0.0000	3.6342	3.6342	2.7000e-004	0.0000	3.6410
Worker	1.2000e-003	6.5000e-004	8.4500e-003	3.0000e-005	3.5400e-003	3.0000e-005	3.5600e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.1384	3.1384	5.0000e-005	0.0000	3.1396
Total	**1.4900e-003**	**0.0111**	**0.0121**	**7.0000e-005**	**4.3600e-003**	**4.0000e-005**	**4.3900e-003**	**1.2000e-003**	**4.0000e-005**	**1.2500e-003**	**0.0000**	**6.7726**	**6.7726**	**3.2000e-004**	**0.0000**	**6.7806**

3.12 Permanent Gravity Sewer Trenching - 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	0.0392	0.3681	0.3697	7.6000e-004		0.0160	0.0160		0.0151	0.0151	0.0000	66.3366	66.3366	0.0137	0.0000	66.6796
Total	**0.0392**	**0.3681**	**0.3697**	**7.6000e-004**		**0.0160**	**0.0160**		**0.0151**	**0.0151**	**0.0000**	**66.3366**	**66.3366**	**0.0137**	**0.0000**	**66.6796**

3.12 Permanent Gravity Sewer Trenching - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	8.4000e-004	0.0107	4.0000e-005	5.4300e-003	3.0000e-005	5.4600e-003	1.4400e-003	3.0000e-005	1.4700e-003	0.0000	3.8705	3.8705	7.0000e-005	0.0000	3.8721
Total	**1.4800e-003**	**8.4000e-004**	**0.0107**	**4.0000e-005**	**5.4300e-003**	**3.0000e-005**	**5.4600e-003**	**1.4400e-003**	**3.0000e-005**	**1.4700e-003**	**0.0000**	**3.8705**	**3.8705**	**7.0000e-005**	**0.0000**	**3.8721**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0392	0.3681	0.3697	7.6000e-004		0.0160	0.0160		0.0151	0.0151	0.0000	66.3365	66.3365	0.0137	0.0000	66.6795
Total	**0.0392**	**0.3681**	**0.3697**	**7.6000e-004**		**0.0160**	**0.0160**		**0.0151**	**0.0151**	**0.0000**	**66.3365**	**66.3365**	**0.0137**	**0.0000**	**66.6795**

3.12 Permanent Gravity Sewer Trenching - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	8.4000e-004	0.0107	4.0000e-005	4.2000e-003	3.0000e-005	4.2400e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	3.8705	3.8705	7.0000e-005	0.0000	3.8721
Total	**1.4800e-003**	**8.4000e-004**	**0.0107**	**4.0000e-005**	**4.2000e-003**	**3.0000e-005**	**4.2400e-003**	**1.1400e-003**	**3.0000e-005**	**1.1700e-003**	**0.0000**	**3.8705**	**3.8705**	**7.0000e-005**	**0.0000**	**3.8721**

3.12 Permanent Gravity Sewer Trenching - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0201	0.1883	0.1891	3.9000e-004		8.1700e-003	8.1700e-003		7.7200e-003	7.7200e-003	0.0000	33.9397	33.9397	7.0200e-003	0.0000	34.1151
Total	**0.0201**	**0.1883**	**0.1891**	**3.9000e-004**		**8.1700e-003**	**8.1700e-003**		**7.7200e-003**	**7.7200e-003**	**0.0000**	**33.9397**	**33.9397**	**7.0200e-003**	**0.0000**	**34.1151**

3.12 Permanent Gravity Sewer Trenching - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	4.0000e-004	5.1400e-003	2.0000e-005	2.7800e-003	2.0000e-005	2.7900e-003	7.4000e-004	2.0000e-005	7.5000e-004	0.0000	1.9087	1.9087	3.0000e-005	0.0000	1.9094
Total	**7.3000e-004**	**4.0000e-004**	**5.1400e-003**	**2.0000e-005**	**2.7800e-003**	**2.0000e-005**	**2.7900e-003**	**7.4000e-004**	**2.0000e-005**	**7.5000e-004**	**0.0000**	**1.9087**	**1.9087**	**3.0000e-005**	**0.0000**	**1.9094**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0201	0.1883	0.1891	3.9000e-004		8.1700e-003	8.1700e-003		7.7200e-003	7.7200e-003	0.0000	33.9396	33.9396	7.0200e-003	0.0000	34.1151
Total	**0.0201**	**0.1883**	**0.1891**	**3.9000e-004**		**8.1700e-003**	**8.1700e-003**		**7.7200e-003**	**7.7200e-003**	**0.0000**	**33.9396**	**33.9396**	**7.0200e-003**	**0.0000**	**34.1151**

3.12 Permanent Gravity Sewer Trenching - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	4.0000e-004	5.1400e-003	2.0000e-005	2.1500e-003	2.0000e-005	2.1700e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	1.9087	1.9087	3.0000e-005	0.0000	1.9094
Total	**7.3000e-004**	**4.0000e-004**	**5.1400e-003**	**2.0000e-005**	**2.1500e-003**	**2.0000e-005**	**2.1700e-003**	**5.8000e-004**	**2.0000e-005**	**6.0000e-004**	**0.0000**	**1.9087**	**1.9087**	**3.0000e-005**	**0.0000**	**1.9094**

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-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	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	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Other Asphalt Surfaces	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	26.8608	26.8608	1.5200e-003	3.1000e-004	26.9924
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	28.5107	28.5107	1.6100e-003	3.3000e-004	28.6504
NaturalGas Mitigated	1.3000e-003	0.0119	9.9600e-003	7.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	12.9128	12.9128	2.5000e-004	2.4000e-004	12.9895
NaturalGas Unmitigated	1.6300e-003	0.0149	0.0125	9.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	16.1719	16.1719	3.1000e-004	3.0000e-004	16.2680

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	303050	1.6300e-003	0.0149	0.0125	9.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	16.1719	16.1719	3.1000e-004	3.0000e-004	16.2680
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		**1.6300e-003**	**0.0149**	**0.0125**	**9.0000e-005**		**1.1300e-003**	**1.1300e-003**		**1.1300e-003**	**1.1300e-003**	**0.0000**	**16.1719**	**16.1719**	**3.1000e-004**	**3.0000e-004**	**16.2680**

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	241976	1.3000e-003	0.0119	9.9600e-003	7.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	12.9128	12.9128	2.5000e-004	2.4000e-004	12.9895
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		**1.3000e-003**	**0.0119**	**9.9600e-003**	**7.0000e-005**		**9.0000e-004**	**9.0000e-004**		**9.0000e-004**	**9.0000e-004**	**0.0000**	**12.9128**	**12.9128**	**2.5000e-004**	**2.4000e-004**	**12.9895**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	122525	28.5107	1.6100e-003	3.3000e-004	28.6504
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**28.5107**	**1.6100e-003**	**3.3000e-004**	**28.6504**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	115435	26.8608	1.5200e-003	3.1000e-004	26.9924
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**26.8608**	**1.5200e-003**	**3.1000e-004**	**26.9924**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0604	0.0000	3.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.6000e-004	7.6000e-004	0.0000	0.0000	8.1000e-004
Unmitigated	0.0604	0.0000	3.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.6000e-004	7.6000e-004	0.0000	0.0000	8.1000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.9700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0534					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	3.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.6000e-004	7.6000e-004	0.0000	0.0000	8.1000e-004
Total	**0.0605**	**0.0000**	**3.9000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**7.6000e-004**	**7.6000e-004**	**0.0000**	**0.0000**	**8.1000e-004**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.9700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0534					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	3.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.6000e-004	7.6000e-004	0.0000	0.0000	8.1000e-004
Total	**0.0605**	**0.0000**	**3.9000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**7.6000e-004**	**7.6000e-004**	**0.0000**	**0.0000**	**8.1000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.9787	0.0879	2.1600e-003	11.8188
Unmitigated	11.2234	0.1098	2.7000e-003	14.7735

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	3.35312 / 0	11.2234	0.1098	2.7000e-003	14.7735
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**11.2234**	**0.1098**	**2.7000e-003**	**14.7735**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2.6825 / 0	8.9787	0.0879	2.1600e-003	11.8188
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**8.9787**	**0.0879**	**2.1600e-003**	**11.8188**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.8249	0.1079	0.0000	4.5211
Unmitigated	3.6498	0.2157	0.0000	9.0422

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	17.98	3.6498	0.2157	0.0000	9.0422
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**3.6498**	**0.2157**	**0.0000**	**9.0422**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	8.99	1.8249	0.1079	0.0000	4.5211
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**1.8249**	**0.1079**	**0.0000**	**4.5211**

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

Bay Bridge
Energy Calculations

Phase Name	Phase Length (# days)	# Worker Trips	Worker Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Pump Station Earthwork & Below Grade Concrete Construction	260	23	14.70	87,906		3,530
Force Main Pipeline Trenching East of Newport Bay	130	23	14.70	43,953		1,765
Microtunneling Only	45	3	14.70	1,985		80
Dredging Only	130	20	14.70	38,220		1,535
Pump Station Above Grade Building Construction including MEP	155	13	14.70	29,621		1,189
Force Main Pipeline Trenching West of Newport Bay	66	25	14.70	24,255	**24.90284233**	974
Temporary Gravity Sewer Trenching	66	23	14.70	22,315		896
Pump Station Architectural Coating	5	3	14.70	221		9
Pump Station Demolition	89	8	14.70	10,466		420
Permanent Gravity Sewer Trenching	65	23	14.70	21,977		882
Generator and Odor Control Building Construction	107	13	14.70	20,448		821
						12,102

Phase Name	Phase Length (# days)	# Vendor Trips	Vendor Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Pump Station Earthwork & Below Grade Concrete Construction	260	-	6.90	-		-
Force Main Pipeline Trenching East of Newport Bay	130	-	6.90	-		-
Microtunneling Only	45	-	6.90	-		-
Dredging Only	130	-	6.90	-		-
Pump Station Above Grade Building Construction including MEP	155	5	6.90	5,348		634
Force Main Pipeline Trenching West of Newport Bay	66	-	6.90	-	**8.43886151**	-
Temporary Gravity Sewer Trenching	66	-	6.90	-		-
Pump Station Architectural Coating	5	-	6.90	-		-
Pump Station Demolition	89	-	6.90	-		-
Permanent Gravity Sewer Trenching	65	-	6.90	-		-
Generator and Odor Control Building Construction	107	5	6.90	3,692		437
						1,071

	Phase Length (# days)	# Hauling Trips	Hauling Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Pump Station Earthwork & Below Grade Concrete Construction	260	481	20.00	9,620		1,152
Force Main Pipeline Trenching East of Newport Bay	130	-	20.00	-		-
Microtunneling Only	45	-	20.00	-		-
Dredging Only	130	-	20.00	-		-
Pump Station Above Grade Building Construction including MEP	155	-	20.00	-		-
Force Main Pipeline Trenching West of Newport Bay	66	-	20.00	-	**8.34886151**	-
Temporary Gravity Sewer Trenching	66	-	20.00	-		-
Pump Station Architectural Coating	5	-	20.00	-		-
Pump Station Demolition	89	182	20.00	3,640		436
Permanent Gravity Sewer Trenching	65	-	20.00	-		-
Generator and Odor Control Building Construction	107	-	20.00	-		-
						1,588
					Total	**14,761**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Pump Station Earthwork & Below Grade Concrete Construction	Cranes	1	6	231	0.29	2.6796	6	260	4,180
	Excavators	1	6	158	0.38	2.4016	6	260	3,746
	Other Construction Equipment	1	6	475	0.5	9.5	6	260	14,820
	Pumps	3	6	84	0.74	2.4864	18	260	11,636
	Rollers	1	8	80	0.38	1.216	8	260	2,529
	Rubber Tired Dozers	1	8	247	0.4	3.952	8	260	8,220
	Tractors/Loaders/Backhoes	1	6	97	0.37	1.4356	6	260	2,240
Force Main Pipeline Trenching East of Newport Bay	Cranes	1	6	231	0.29	2.6796	6	130	2,090
	Excavators	1	8	158	0.38	2.4016	8	130	2,498
	Other Construction Equipment	1	6	475	0.5	9.5	6	130	7,410
	Pumps	3	6	84	0.74	2.4864	18	130	5,818
	Rollers	1	8	80	0.38	1.216	8	130	1,265
	Rubber Tired Dozers	1	8	247	0.4	3.952	8	130	4,110
	Tractors/Loaders/Backhoes	1	8	97	0.37	1.4356	8	130	1,493
Microtunneling Only	Other Construction Equipment	1	24	118	0.42	1.9824	24	45	2,141
Dredging Only	Cranes	1	6	231	0.29	2.6796	6	130	2,090
	Other Construction Equipment	1	8	500	0.5	10	8	130	10,400
	Other Construction Equipment	2	8	475	0.05	0.95	16	130	1,976
	Pumps	3	6	84	0.74	2.4864	18	130	5,818
	Tractors/Loaders/Backhoes	2	8	97	0.37	1.4356	16	130	2,986
Pump Station Above Grade Building Construction including MEP	Cranes	1	4	231	0.29	2.6796	4	155	1,661
	Pumps	1	6	84	0.74	2.4864	6	155	2,312
	Tractors/Loaders/Backhoes	2	8	97	0.37	1.4356	16	155	3,560
Force Main Pipeline Trenching West of Newport Bay	Cranes	1	6	231	0.29	2.6796	6	66	1,061
	Excavators	1	8	158	0.38	2.4016	8	66	1,268
	Other Construction Equipment	1	8	475	0.05	0.95	8	66	502
	Pumps	3	8	84	0.74	2.4864	24	66	3,938
	Rollers	1	6	80	0.38	1.216	6	66	482
	Rubber Tired Dozers	1	6	247	0.4	3.952	6	66	1,565
	Tractors/Loaders/Backhoes	1	8	97	0.37	1.4356	8	66	758
Temporary Gravity Sewer Trenching	Cranes	1	6	231	0.29	2.6796	6	66	1,061
	Excavators	1	8	158	0.38	2.4016	8	66	1,268
	Other Construction Equipment	1	8	475	0.42	7.98	8	66	4,213
	Pumps	3	8	84	0.74	2.4864	24	66	3,938
	Rollers	1	6	80	0.38	1.216	6	66	482
	Rubber Tired Dozers	1	8	247	0.4	3.952	8	66	2,087
	Tractors/Loaders/Backhoes	1	8	97	0.37	1.4356	8	66	758
Pump Station Architectural Coating	Air Compressors	1	6	78	0.48	1.4976	6	5	45
Pump Station Demolition	Excavators	1	6	158	0.38	2.4016	6	89	1,282
	Rubber Tired Dozers	1	1	247	0.4	3.952	1	89	352
	Tractors/Loaders/Backhoes	1	6	97	0.37	1.4356	6	89	767
Permanent Gravity Sewer Trenching	Cranes	1	6	231	0.29	2.6796	6	65	1,045
	Excavators	1	6	158	0.38	2.4016	6	65	937
	Other Construction Equipment	1	6	475	0.05	0.95	6	65	371
	Pumps	3	6	84	0.74	2.4864	18	65	2,909
	Rollers	1	6	80	0.38	1.216	6	65	474
	Rubber Tired Dozers	1	8	247	0.4	3.952	8	65	2,055
	Tractors/Loaders/Backhoes	1	1	97	0.37	1.4356	1	65	93
Generator and Odor Control Building Construction	Cranes	1	4	231	0.29	2.6796	4	107	1,147
	Pumps	1	6	84	0.74	2.4864	6	107	1,596
	Tractors/Loaders/Backhoes	2	8	97	0.37	1.4356	16	107	2,458
								Total:	143,912
								Off-Site Mobile Construction Total:	14,761
								TOTAL:	158,673

Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor

Where:

Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.

County Offroad Gallons	159,431,547
	0.001