

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Annual

SDG&E PSRP Natural Gas Transmission Project

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	1.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Construction schedule from Chapter 3 - Project Description.

Land Use - User defined industrial land use type with no population and zero area.

Construction Phase - From Chapter 3- Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

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Off-road Equipment - From Chapter 3 - Project Description.

Trips and VMT - Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average trips assumed to be 40 miles, commute trip length assumed at 30 miles.

On-road Fugitive Dust - Assume hauling trips are 99% paved.

Grading - Grading - Total Area Disturbed in 2019 = 15.5 acres

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - Construction Off-road Equipment Mitigation - Assume that all equipment will be Tier 3.

Mobile Land Use Mitigation -

Operational Off-Road Equipment - From Chapter 3 - Project Description.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	47.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00

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tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	2/4/2021	12/31/2019
tblConstructionPhase	PhaseEndDate	5/3/2021	9/25/2019
tblConstructionPhase	PhaseEndDate	7/10/2021	10/17/2019
tblConstructionPhase	PhaseEndDate	8/14/2021	10/14/2019
tblConstructionPhase	PhaseEndDate	9/20/2021	11/26/2019
tblConstructionPhase	PhaseEndDate	1/29/2022	12/31/2019
tblConstructionPhase	PhaseEndDate	12/25/2019	12/31/2019
tblConstructionPhase	PhaseEndDate	8/4/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	3/11/2020	10/18/2019
tblConstructionPhase	PhaseEndDate	6/1/2020	12/31/2019
tblConstructionPhase	PhaseStartDate	8/5/2020	7/1/2019
tblConstructionPhase	PhaseStartDate	2/5/2021	7/1/2019
tblConstructionPhase	PhaseStartDate	5/4/2021	8/10/2019
tblConstructionPhase	PhaseStartDate	7/11/2021	9/10/2019
tblConstructionPhase	PhaseStartDate	8/15/2021	10/22/2019
tblConstructionPhase	PhaseStartDate	9/21/2021	8/22/2019
tblConstructionPhase	PhaseStartDate	7/1/2019	7/6/2019
tblConstructionPhase	PhaseStartDate	6/2/2020	10/29/2019
tblConstructionPhase	PhaseStartDate	12/26/2019	8/3/2019
tblConstructionPhase	PhaseStartDate	3/12/2020	10/11/2019
tblGrading	AcresOfGrading	229.50	15.50
tblGrading	MaterialExported	0.00	181,164.00
tblGrading	MaterialImported	0.00	154,485.00
tblLandUse	LotAcreage	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	PhaseName		Augur Bore 1
tblOffRoadEquipment	PhaseName		Augur Bore 2
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tblOffRoadEquipment	PhaseName		HDD
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Augur Bore 2
tblOffRoadEquipment	PhaseName		Augur Bore 2

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tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Augur Bore 1
tblOffRoadEquipment	PhaseName	Augur Bore 1
tblOffRoadEquipment	PhaseName	HDD
tblOffRoadEquipment	PhaseName	Site Preparation
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tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	HDD
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tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Augur Bore 1
tblOffRoadEquipment	PhaseName	HDD
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tblOffRoadEquipment	PhaseName	HDD
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	HDD
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tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Augur Bore 2
tblOffRoadEquipment	PhaseName	Site Preparation

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tblOffRoadEquipment	PhaseName		Augur Bore 1
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
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tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
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tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	6.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00

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2.0 Emissions Summary**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	6.4367	58.0607	47.3709	0.1216	10.2086	2.5935	12.8021	1.4013	2.4754	3.8767	0.0000	11,000.9828	11,000.9828	1.7888	0.0000	11,045.7035
Maximum	6.4367	58.0607	47.3709	0.1216	10.2086	2.5935	12.8021	1.4013	2.4754	3.8767	0.0000	11,000.9828	11,000.9828	1.7888	0.0000	11,045.7035

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	2.8316	48.9248	54.1239	0.1216	5.7916	2.1685	7.9601	0.9605	2.1628	3.1233	0.0000	11,000.9751	11,000.9751	1.7888	0.0000	11,045.6958
Maximum	2.8316	48.9248	54.1239	0.1216	5.7916	2.1685	7.9601	0.9605	2.1628	3.1233	0.0000	11,000.9751	11,000.9751	1.7888	0.0000	11,045.6958

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	56.01	15.74	-14.26	0.00	43.27	16.38	37.82	31.46	12.63	19.43	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2019	9-30-2019	26.4347	21.3970
		Highest	26.4347	21.3970

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.1221	1.1639	0.7023	2.4300e-003		0.0425	0.0425		0.0391	0.0391	0.0000	213.1124	213.1124	0.0689	0.0000	214.8350
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1221	1.1639	0.7023	2.4300e-003	0.0000	0.0425	0.0425	0.0000	0.0391	0.0391	0.0000	213.1124	213.1124	0.0689	0.0000	214.8350

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Offroad	0.1221	1.1639	0.7023	2.4300e-003		0.0425	0.0425		0.0391	0.0391	0.0000	213.1124	213.1124	0.0689	0.0000	214.8350
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1221	1.1639	0.7023	2.4300e-003	0.0000	0.0425	0.0425	0.0000	0.0391	0.0391	0.0000	213.1124	213.1124	0.0689	0.0000	214.8350

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

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/6/2019	12/31/2019	6	153	Pipe Installation
2	Augur Bore 1	Trenching	8/3/2019	10/18/2019	6	66	
3	HDD	Trenching	10/11/2019	12/31/2019	6	70	
4	Augur Bore 2	Trenching	10/29/2019	12/31/2019	6	55	
5	Worker Trips	Building Construction	7/1/2019	12/31/2019	6	158	
6	Mobilize	Building Construction	7/1/2019	9/25/2019	6	75	
7	Civil Work 1	Building Construction	8/10/2019	10/17/2019	6	59	
8	Demobilize 1	Building Construction	9/10/2019	10/14/2019	6	30	
9	Civil Work 2	Building Construction	10/22/2019	11/26/2019	6	31	
10	Grind and Cap	Paving	8/22/2019	12/31/2019	6	113	

Acres of Grading (Site Preparation Phase): 15.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Air Compressors	28	6.00	78	0.48
Site Preparation	Air Compressors	10	6.00	78	0.48
Site Preparation	Bore/Drill Rigs	5	7.00	221	0.50
Site Preparation	Concrete/Industrial Saws	8	5.00	81	0.73
Site Preparation	Cranes	5	7.00	231	0.29
Site Preparation	Crawler Tractors	3	8.00	212	0.43

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Site Preparation	Excavators	18	7.00	158	0.38
Site Preparation	Excavators	10	7.00	158	0.38
Site Preparation	Excavators	5	6.00	158	0.38
Site Preparation	Excavators	10	6.00	158	0.38
Site Preparation	Generator Sets	10	8.00	84	0.74
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Off-Highway Trucks	5	8.00	402	0.38
Site Preparation	Off-Highway Trucks	5	6.00	402	0.38
Site Preparation	Other General Industrial Equipment	5	6.00	88	0.34
Site Preparation	Other Material Handling Equipment	5	6.00	168	0.40
Site Preparation	Rollers	4	6.00	80	0.38
Site Preparation	Rough Terrain Forklifts	5	6.00	100	0.40
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Rubber Tired Loaders	3	8.00	203	0.36
Site Preparation	Sweepers/Scrubbers	4	5.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	27	6.00	97	0.37
Site Preparation	Welders	40	7.00	46	0.45
Augur Bore 1	Air Compressors	3	5.00	78	0.48
Augur Bore 1	Bore/Drill Rigs	3	5.00	221	0.50
Augur Bore 1	Cranes	3	6.00	231	0.29
Augur Bore 1	Cranes	3	6.00	231	0.29
Augur Bore 1	Off-Highway Trucks	3	5.00	402	0.38
Augur Bore 1	Welders	6	6.00	46	0.45
HDD	Bore/Drill Rigs	3	7.00	221	0.50
HDD	Cranes	3	6.00	231	0.29
HDD	Generator Sets	3	7.00	84	0.74
HDD	Other Construction Equipment	3	7.00	172	0.42

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HDD	Pumps	6	5.00	84	0.74
HDD	Pumps	3	7.00	84	0.74
HDD	Rough Terrain Forklifts	3	5.00	100	0.40
Augur Bore 2	Air Compressors	1	6.00	78	0.48
Augur Bore 2	Bore/Drill Rigs	1	6.00	221	0.50
Augur Bore 2	Cranes	1	7.00	231	0.29
Augur Bore 2	Cranes	1	7.00	231	0.29
Augur Bore 2	Off-Highway Trucks	1	6.00	402	0.38
Augur Bore 2	Welders	2	7.00	46	0.45
Worker Trips	Cranes	0	6.00	231	0.29
Worker Trips	Forklifts	0	6.00	89	0.20
Worker Trips	Generator Sets	0	8.00	84	0.74
Worker Trips	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Worker Trips	Welders	0	8.00	46	0.45
Mobilize	Cranes	0	6.00	231	0.29
Mobilize	Forklifts	0	6.00	89	0.20
Mobilize	Generator Sets	0	8.00	84	0.74
Mobilize	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Mobilize	Welders	0	8.00	46	0.45
Civil Work 1	Air Compressors	4	5.00	78	0.48
Civil Work 1	Cranes	0	6.00	231	0.29
Civil Work 1	Forklifts	0	6.00	89	0.20
Civil Work 1	Generator Sets	0	8.00	84	0.74
Civil Work 1	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Civil Work 1	Welders	0	8.00	46	0.45
Demobilize 1	Cranes	0	6.00	231	0.29
Demobilize 1	Forklifts	0	6.00	89	0.20

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Demobilize 1	Generator Sets	0	8.00	84	0.74
Demobilize 1	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Demobilize 1	Welders	0	8.00	46	0.45
Civil Work 2	Air Compressors	1	6.00	78	0.48
Civil Work 2	Cranes	0	6.00	231	0.29
Civil Work 2	Forklifts	0	6.00	89	0.20
Civil Work 2	Generator Sets	0	8.00	84	0.74
Civil Work 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Civil Work 2	Welders	0	8.00	46	0.45
Grind and Cap	Cement and Mortar Mixers	0	6.00	9	0.56
Grind and Cap	Crushing/Proc. Equipment	4	5.00	85	0.78
Grind and Cap	Pavers	0	6.00	130	0.42
Grind and Cap	Paving Equipment	4	5.00	132	0.36
Grind and Cap	Rollers	4	6.00	80	0.38
Grind and Cap	Sweepers/Scrubbers	4	5.00	64	0.46
Grind and Cap	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	215	68.00	121.00	29,502.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 1	21	3.00	9.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
HDD	24	3.00	3.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 2	7	1.00	3.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Worker Trips	0	600.00	24.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Mobilize	0	0.00	15.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Civil Work 1	4	4.00	4.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 1	0	0.00	3.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Civil Work 2	1	1.00	1.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Grind and Cap	16	4.00	0.00	1,110.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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3.2 Site Preparation - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.2200e-003	0.0000	8.2200e-003	8.9000e-004	0.0000	8.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6830	39.0462	35.1998	0.0635		2.0938	2.0938		1.9984	1.9984	0.0000	5,525.6377	5,525.6377	1.3409	0.0000	5,559.1602
Total	4.6830	39.0462	35.1998	0.0635	8.2200e-003	2.0938	2.1020	8.9000e-004	1.9984	1.9993	0.0000	5,525.6377	5,525.6377	1.3409	0.0000	5,559.1602

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.2288	7.5860	1.7416	0.0218	8.2326	0.0325	8.2651	0.9092	0.0311	0.9402	0.0000	2,154.8932	2,154.8932	0.1780	0.0000	2,159.3439
Vendor	0.1916	2.7179	0.8908	9.6100e-003	0.3545	0.0629	0.4174	0.1066	0.0601	0.1667	0.0000	907.5900	907.5900	0.0123	0.0000	907.8974
Worker	0.0470	0.0402	0.3703	1.1700e-003	0.1158	7.9000e-004	0.1166	0.0308	7.3000e-004	0.0315	0.0000	106.1993	106.1993	3.2100e-003	0.0000	106.2796
Total	0.4675	10.3440	3.0027	0.0326	8.7029	0.0961	8.7990	1.0465	0.0919	1.1384	0.0000	3,168.6825	3,168.6825	0.1935	0.0000	3,173.5209

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3.2 Site Preparation - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.7000e-003	0.0000	3.7000e-003	4.0000e-004	0.0000	4.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6018	31.7915	40.7882	0.0635		1.7585	1.7585		1.7585	1.7585	0.0000	5,525.6311	5,525.6311	1.3409	0.0000	5,559.1536
Total	1.6018	31.7915	40.7882	0.0635	3.7000e-003	1.7585	1.7622	4.0000e-004	1.7585	1.7589	0.0000	5,525.6311	5,525.6311	1.3409	0.0000	5,559.1536

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.2288	7.5860	1.7416	0.0218	3.9801	0.0325	4.0125	0.4848	0.0311	0.5159	0.0000	2,154.8932	2,154.8932	0.1780	0.0000	2,159.3439
Vendor	0.1916	2.7179	0.8908	9.6100e-003	0.3545	0.0629	0.4174	0.1066	0.0601	0.1667	0.0000	907.5900	907.5900	0.0123	0.0000	907.8974
Worker	0.0470	0.0402	0.3703	1.1700e-003	0.1158	7.9000e-004	0.1166	0.0308	7.3000e-004	0.0315	0.0000	106.1993	106.1993	3.2100e-003	0.0000	106.2796
Total	0.4675	10.3440	3.0027	0.0326	4.4504	0.0961	4.5465	0.6222	0.0919	0.7141	0.0000	3,168.6825	3,168.6825	0.1935	0.0000	3,173.5209

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3.3 Augur Bore 1 - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2152	1.9579	1.1360	2.8800e-003		0.0859	0.0859		0.0811	0.0811	0.0000	251.4215	251.4215	0.0705	0.0000	253.1838
Total	0.2152	1.9579	1.1360	2.8800e-003		0.0859	0.0859		0.0811	0.0811	0.0000	251.4215	251.4215	0.0705	0.0000	253.1838

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1500e-003	0.0872	0.0286	3.1000e-004	0.0114	2.0200e-003	0.0134	3.4200e-003	1.9300e-003	5.3500e-003	0.0000	29.1205	29.1205	3.9000e-004	0.0000	29.1304
Worker	8.9000e-004	7.6000e-004	7.0500e-003	2.0000e-005	2.2000e-003	1.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	2.0211	2.0211	6.0000e-005	0.0000	2.0226
Total	7.0400e-003	0.0880	0.0356	3.3000e-004	0.0136	2.0300e-003	0.0156	4.0100e-003	1.9400e-003	5.9500e-003	0.0000	31.1416	31.1416	4.5000e-004	0.0000	31.1530

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3.3 Augur Bore 1 - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0762	1.4365	1.5766	2.8800e-003		0.0638	0.0638		0.0638	0.0638	0.0000	251.4212	251.4212	0.0705	0.0000	253.1835
Total	0.0762	1.4365	1.5766	2.8800e-003		0.0638	0.0638		0.0638	0.0638	0.0000	251.4212	251.4212	0.0705	0.0000	253.1835

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1500e-003	0.0872	0.0286	3.1000e-004	0.0114	2.0200e-003	0.0134	3.4200e-003	1.9300e-003	5.3500e-003	0.0000	29.1205	29.1205	3.9000e-004	0.0000	29.1304
Worker	8.9000e-004	7.6000e-004	7.0500e-003	2.0000e-005	2.2000e-003	1.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	2.0211	2.0211	6.0000e-005	0.0000	2.0226
Total	7.0400e-003	0.0880	0.0356	3.3000e-004	0.0136	2.0300e-003	0.0156	4.0100e-003	1.9400e-003	5.9500e-003	0.0000	31.1416	31.1416	4.5000e-004	0.0000	31.1530

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3.4 HDD - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2687	2.6551	2.0882	4.1800e-003		0.1362	0.1362		0.1313	0.1313	0.0000	367.4525	367.4525	0.0717	0.0000	369.2438
Total	0.2687	2.6551	2.0882	4.1800e-003		0.1362	0.1362		0.1313	0.1313	0.0000	367.4525	367.4525	0.0717	0.0000	369.2438

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1700e-003	0.0308	0.0101	1.1000e-004	4.0200e-003	7.1000e-004	4.7300e-003	1.2100e-003	6.8000e-004	1.8900e-003	0.0000	10.2951	10.2951	1.4000e-004	0.0000	10.2986
Worker	9.5000e-004	8.1000e-004	7.4700e-003	2.0000e-005	2.3400e-003	2.0000e-005	2.3500e-003	6.2000e-004	1.0000e-005	6.4000e-004	0.0000	2.1436	2.1436	6.0000e-005	0.0000	2.1452
Total	3.1200e-003	0.0316	0.0176	1.3000e-004	6.3600e-003	7.3000e-004	7.0800e-003	1.8300e-003	6.9000e-004	2.5300e-003	0.0000	12.4387	12.4387	2.0000e-004	0.0000	12.4438

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3.4 HDD - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0937	1.9759	2.5896	4.1800e-003		0.1123	0.1123		0.1123	0.1123	0.0000	367.4521	367.4521	0.0717	0.0000	369.2434
Total	0.0937	1.9759	2.5896	4.1800e-003		0.1123	0.1123		0.1123	0.1123	0.0000	367.4521	367.4521	0.0717	0.0000	369.2434

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1700e-003	0.0308	0.0101	1.1000e-004	4.0200e-003	7.1000e-004	4.7300e-003	1.2100e-003	6.8000e-004	1.8900e-003	0.0000	10.2951	10.2951	1.4000e-004	0.0000	10.2986
Worker	9.5000e-004	8.1000e-004	7.4700e-003	2.0000e-005	2.3400e-003	2.0000e-005	2.3500e-003	6.2000e-004	1.0000e-005	6.4000e-004	0.0000	2.1436	2.1436	6.0000e-005	0.0000	2.1452
Total	3.1200e-003	0.0316	0.0176	1.3000e-004	6.3600e-003	7.3000e-004	7.0800e-003	1.8300e-003	6.9000e-004	2.5300e-003	0.0000	12.4387	12.4387	2.0000e-004	0.0000	12.4438

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3.5 Augur Bore 2 - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0705	0.6422	0.3730	9.5000e-004		0.0281	0.0281		0.0266	0.0266	0.0000	82.8359	82.8359	0.0232	0.0000	83.4166
Total	0.0705	0.6422	0.3730	9.5000e-004		0.0281	0.0281		0.0266	0.0266	0.0000	82.8359	82.8359	0.0232	0.0000	83.4166

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7100e-003	0.0242	7.9400e-003	9.0000e-005	3.1600e-003	5.6000e-004	3.7200e-003	9.5000e-004	5.4000e-004	1.4900e-003	0.0000	8.0890	8.0890	1.1000e-004	0.0000	8.0918
Worker	2.5000e-004	2.1000e-004	1.9600e-003	1.0000e-005	6.1000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5614	0.5614	2.0000e-005	0.0000	0.5618
Total	1.9600e-003	0.0244	9.9000e-003	1.0000e-004	3.7700e-003	5.6000e-004	4.3400e-003	1.1100e-003	5.4000e-004	1.6600e-003	0.0000	8.6505	8.6505	1.3000e-004	0.0000	8.6536

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3.5 Augur Bore 2 - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0250	0.4728	0.5193	9.5000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	82.8358	82.8358	0.0232	0.0000	83.4165
Total	0.0250	0.4728	0.5193	9.5000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	82.8358	82.8358	0.0232	0.0000	83.4165

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7100e-003	0.0242	7.9400e-003	9.0000e-005	3.1600e-003	5.6000e-004	3.7200e-003	9.5000e-004	5.4000e-004	1.4900e-003	0.0000	8.0890	8.0890	1.1000e-004	0.0000	8.0918
Worker	2.5000e-004	2.1000e-004	1.9600e-003	1.0000e-005	6.1000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5614	0.5614	2.0000e-005	0.0000	0.5618
Total	1.9600e-003	0.0244	9.9000e-003	1.0000e-004	3.7700e-003	5.6000e-004	4.3400e-003	1.1100e-003	5.4000e-004	1.6600e-003	0.0000	8.6505	8.6505	1.3000e-004	0.0000	8.6536

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3.6 Worker Trips - 2019**Unmitigated Construction On-Site**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0393	0.5567	0.1825	1.9700e-003	0.0726	0.0129	0.0855	0.0218	0.0123	0.0342	0.0000	185.9008	185.9008	2.5200e-003	0.0000	185.9638
Worker	0.4283	0.3659	3.3742	0.0107	1.0550	7.1800e-003	1.0622	0.2802	6.6100e-003	0.2869	0.0000	967.6752	967.6752	0.0293	0.0000	968.4070
Total	0.4676	0.9226	3.5566	0.0127	1.1277	0.0201	1.1477	0.3021	0.0189	0.3210	0.0000	1,153.5759	1,153.5759	0.0318	0.0000	1,154.3708

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3.6 Worker Trips - 2019**Mitigated Construction On-Site**

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0393	0.5567	0.1825	1.9700e-003	0.0726	0.0129	0.0855	0.0218	0.0123	0.0342	0.0000	185.9008	185.9008	2.5200e-003	0.0000	185.9638
Worker	0.4283	0.3659	3.3742	0.0107	1.0550	7.1800e-003	1.0622	0.2802	6.6100e-003	0.2869	0.0000	967.6752	967.6752	0.0293	0.0000	968.4070
Total	0.4676	0.9226	3.5566	0.0127	1.1277	0.0201	1.1477	0.3021	0.0189	0.3210	0.0000	1,153.5759	1,153.5759	0.0318	0.0000	1,154.3708

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3.7 Mobilize - 2019**Unmitigated Construction On-Site**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0117	0.1652	0.0541	5.8000e-004	0.0215	3.8200e-003	0.0254	6.4800e-003	3.6500e-003	0.0101	0.0000	55.1525	55.1525	7.5000e-004	0.0000	55.1712
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0117	0.1652	0.0541	5.8000e-004	0.0215	3.8200e-003	0.0254	6.4800e-003	3.6500e-003	0.0101	0.0000	55.1525	55.1525	7.5000e-004	0.0000	55.1712

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3.7 Mobilize - 2019**Mitigated Construction On-Site**

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0117	0.1652	0.0541	5.8000e-004	0.0215	3.8200e-003	0.0254	6.4800e-003	3.6500e-003	0.0101	0.0000	55.1525	55.1525	7.5000e-004	0.0000	55.1712
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0117	0.1652	0.0541	5.8000e-004	0.0215	3.8200e-003	0.0254	6.4800e-003	3.6500e-003	0.0101	0.0000	55.1525	55.1525	7.5000e-004	0.0000	55.1712

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3.8 Civil Work 1 - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0262	0.1805	0.1811	2.9000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	25.1070	25.1070	2.1200e-003	0.0000	25.1600
Total	0.0262	0.1805	0.1811	2.9000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	25.1070	25.1070	2.1200e-003	0.0000	25.1600

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4400e-003	0.0347	0.0114	1.2000e-004	4.5200e-003	8.0000e-004	5.3200e-003	1.3600e-003	7.7000e-004	2.1300e-003	0.0000	11.5698	11.5698	1.6000e-004	0.0000	11.5737
Worker	1.0700e-003	9.1000e-004	8.4000e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6400e-003	7.0000e-004	2.0000e-005	7.1000e-004	0.0000	2.4090	2.4090	7.0000e-005	0.0000	2.4108
Total	3.5100e-003	0.0356	0.0198	1.5000e-004	7.1500e-003	8.2000e-004	7.9600e-003	2.0600e-003	7.9000e-004	2.8400e-003	0.0000	13.9788	13.9788	2.3000e-004	0.0000	13.9845

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3.8 Civil Work 1 - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8400e-003	0.1334	0.1802	2.9000e-004		9.3500e-003	9.3500e-003		9.3500e-003	9.3500e-003	0.0000	25.1070	25.1070	2.1200e-003	0.0000	25.1600
Total	5.8400e-003	0.1334	0.1802	2.9000e-004		9.3500e-003	9.3500e-003		9.3500e-003	9.3500e-003	0.0000	25.1070	25.1070	2.1200e-003	0.0000	25.1600

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4400e-003	0.0347	0.0114	1.2000e-004	4.5200e-003	8.0000e-004	5.3200e-003	1.3600e-003	7.7000e-004	2.1300e-003	0.0000	11.5698	11.5698	1.6000e-004	0.0000	11.5737
Worker	1.0700e-003	9.1000e-004	8.4000e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6400e-003	7.0000e-004	2.0000e-005	7.1000e-004	0.0000	2.4090	2.4090	7.0000e-005	0.0000	2.4108
Total	3.5100e-003	0.0356	0.0198	1.5000e-004	7.1500e-003	8.2000e-004	7.9600e-003	2.0600e-003	7.9000e-004	2.8400e-003	0.0000	13.9788	13.9788	2.3000e-004	0.0000	13.9845

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3.9 Demobilize 1 - 2019**Unmitigated Construction On-Site**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3000e-004	0.0132	4.3300e-003	5.0000e-005	1.7200e-003	3.1000e-004	2.0300e-003	5.2000e-004	2.9000e-004	8.1000e-004	0.0000	4.4122	4.4122	6.0000e-005	0.0000	4.4137
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.3000e-004	0.0132	4.3300e-003	5.0000e-005	1.7200e-003	3.1000e-004	2.0300e-003	5.2000e-004	2.9000e-004	8.1000e-004	0.0000	4.4122	4.4122	6.0000e-005	0.0000	4.4137

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3.9 Demobilize 1 - 2019**Mitigated Construction On-Site**

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3000e-004	0.0132	4.3300e-003	5.0000e-005	1.7200e-003	3.1000e-004	2.0300e-003	5.2000e-004	2.9000e-004	8.1000e-004	0.0000	4.4122	4.4122	6.0000e-005	0.0000	4.4137
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.3000e-004	0.0132	4.3300e-003	5.0000e-005	1.7200e-003	3.1000e-004	2.0300e-003	5.2000e-004	2.9000e-004	8.1000e-004	0.0000	4.4122	4.4122	6.0000e-005	0.0000	4.4137

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3.10 Civil Work 2 - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.1300e-003	0.0285	0.0285	5.0000e-005		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	3.9575	3.9575	3.3000e-004	0.0000	3.9659
Total	4.1300e-003	0.0285	0.0285	5.0000e-005		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	3.9575	3.9575	3.3000e-004	0.0000	3.9659

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	4.5500e-003	1.4900e-003	2.0000e-005	5.9000e-004	1.1000e-004	7.0000e-004	1.8000e-004	1.0000e-004	2.8000e-004	0.0000	1.5198	1.5198	2.0000e-005	0.0000	1.5203
Worker	1.4000e-004	1.2000e-004	1.1000e-003	0.0000	3.4000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3164	0.3164	1.0000e-005	0.0000	0.3167
Total	4.6000e-004	4.6700e-003	2.5900e-003	2.0000e-005	9.3000e-004	1.1000e-004	1.0500e-003	2.7000e-004	1.0000e-004	3.7000e-004	0.0000	1.8362	1.8362	3.0000e-005	0.0000	1.8369

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3.10 Civil Work 2 - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2000e-004	0.0210	0.0284	5.0000e-005		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	3.9575	3.9575	3.3000e-004	0.0000	3.9659
Total	9.2000e-004	0.0210	0.0284	5.0000e-005		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	3.9575	3.9575	3.3000e-004	0.0000	3.9659

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	4.5500e-003	1.4900e-003	2.0000e-005	5.9000e-004	1.1000e-004	7.0000e-004	1.8000e-004	1.0000e-004	2.8000e-004	0.0000	1.5198	1.5198	2.0000e-005	0.0000	1.5203
Worker	1.4000e-004	1.2000e-004	1.1000e-003	0.0000	3.4000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3164	0.3164	1.0000e-005	0.0000	0.3167
Total	4.6000e-004	4.6700e-003	2.5900e-003	2.0000e-005	9.3000e-004	1.1000e-004	1.0500e-003	2.7000e-004	1.0000e-004	3.7000e-004	0.0000	1.8362	1.8362	3.0000e-005	0.0000	1.8369

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3.11 Grind and Cap - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1945	1.6340	1.5794	2.3700e-003		0.1090	0.1090		0.1035	0.1035	0.0000	209.0111	209.0111	0.0461	0.0000	210.1631
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1945	1.6340	1.5794	2.3700e-003		0.1090	0.1090		0.1035	0.1035	0.0000	209.0111	209.0111	0.0461	0.0000	210.1631

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.6100e-003	0.2854	0.0655	8.2000e-004	0.3098	1.2200e-003	0.3110	0.0342	1.1700e-003	0.0354	0.0000	81.0769	81.0769	6.7000e-003	0.0000	81.2444
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0400e-003	1.7400e-003	0.0161	5.0000e-005	5.0300e-003	3.0000e-005	5.0600e-003	1.3400e-003	3.0000e-005	1.3700e-003	0.0000	4.6138	4.6138	1.4000e-004	0.0000	4.6173
Total	0.0107	0.2872	0.0816	8.7000e-004	0.3148	1.2500e-003	0.3160	0.0356	1.2000e-003	0.0368	0.0000	85.6907	85.6907	6.8400e-003	0.0000	85.8617

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3.11 Grind and Cap - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0537	1.1772	1.6568	2.3700e-003		0.0765	0.0765		0.0765	0.0765	0.0000	209.0108	209.0108	0.0461	0.0000	210.1628
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0537	1.1772	1.6568	2.3700e-003		0.0765	0.0765		0.0765	0.0765	0.0000	209.0108	209.0108	0.0461	0.0000	210.1628

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.6100e-003	0.2854	0.0655	8.2000e-004	0.1498	1.2200e-003	0.1510	0.0182	1.1700e-003	0.0194	0.0000	81.0769	81.0769	6.7000e-003	0.0000	81.2444
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0400e-003	1.7400e-003	0.0161	5.0000e-005	5.0300e-003	3.0000e-005	5.0600e-003	1.3400e-003	3.0000e-005	1.3700e-003	0.0000	4.6138	4.6138	1.4000e-004	0.0000	4.6173
Total	0.0107	0.2872	0.0816	8.7000e-004	0.1548	1.2500e-003	0.1560	0.0196	1.2000e-003	0.0208	0.0000	85.6907	85.6907	6.8400e-003	0.0000	85.8617

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

[illegible]

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5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	2.0000e-005

6.2 Area by SubCategory

Unmitigated

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

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6.2 Area by SubCategory**Mitigated**

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

7.0 Water Detail**7.1 Mitigation Measures Water**

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

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

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

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Aerial Lifts	1	10.00	1	63	0.31	Diesel
Cranes	1	10.00	1	231	0.29	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	2	402	0.38	Diesel
Off-Highway Trucks	1	10.00	4	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	6	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	4	10.00	4	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	2	10.00	2	402	0.38	Diesel
Off-Highway Trucks	1	10.00	240	402	0.38	Diesel
Off-Highway Trucks	1	10.00	12	402	0.38	Diesel
Tractors/Loaders/Backhoes	1	10.00	1	97	0.37	Diesel
Welders	1	10.00	1	46	0.45	Diesel

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UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Aerial Lifts	2.0000e-005	4.0000e-004	6.8000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.0922	0.0922	3.0000e-005	0.0000	0.0930
Cranes	2.8000e-004	3.3700e-003	1.3200e-003	0.0000		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.3168	0.3168	1.0000e-004	0.0000	0.3194
Off-Highway Trucks	0.1214	1.1579	0.6977	2.4200e-003		0.0422	0.0422		0.0388	0.0388	0.0000	212.4152	212.4152	0.0687	0.0000	214.1327
Tractors/Loaders/Backhoes	1.3000e-004	1.3200e-003	1.4200e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.1705	0.1705	6.0000e-005	0.0000	0.1719
Welders	2.1000e-004	9.8000e-004	1.1000e-003	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1176	0.1176	2.0000e-005	0.0000	0.1181
Total	0.1221	1.1639	0.7022	2.4200e-003		0.0425	0.0425		0.0391	0.0391	0.0000	213.1124	213.1124	0.0689	0.0000	214.8350

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
----------------	--------

11.0 Vegetation

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SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

SDG&E PSRP Natural Gas Transmission Project
San Diego County, Summer**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	1.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

Project Characteristics - Construction schedule from Chapter 3 - Project Description.

Land Use - User defined industrial land use type with no population and zero area.

Construction Phase - From Chapter 3- Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Trips and VMT - Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average trips assumed to be 40 miles, commute trip length assumed at 30 miles.

On-road Fugitive Dust - Assume hauling trips are 99% paved.

Grading - Grading - Total Area Disturbed in 2019 = 15.5 acres

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - Construction Off-road Equipment Mitigation - Assume that all equipment will be Tier 3.

Mobile Land Use Mitigation -

Operational Off-Road Equipment - From Chapter 3 - Project Description.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	47.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00

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[illegible]

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

[illegible]

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	2/4/2021	12/31/2019
tblConstructionPhase	PhaseEndDate	5/3/2021	9/25/2019
tblConstructionPhase	PhaseEndDate	7/10/2021	10/17/2019
tblConstructionPhase	PhaseEndDate	8/14/2021	10/14/2019
tblConstructionPhase	PhaseEndDate	9/20/2021	11/26/2019
tblConstructionPhase	PhaseEndDate	1/29/2022	12/31/2019
tblConstructionPhase	PhaseEndDate	12/25/2019	12/31/2019
tblConstructionPhase	PhaseEndDate	8/4/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	3/11/2020	10/18/2019
tblConstructionPhase	PhaseEndDate	6/1/2020	12/31/2019
tblConstructionPhase	PhaseStartDate	8/5/2020	7/1/2019
tblConstructionPhase	PhaseStartDate	2/5/2021	7/1/2019
tblConstructionPhase	PhaseStartDate	5/4/2021	8/10/2019
tblConstructionPhase	PhaseStartDate	7/11/2021	9/10/2019
tblConstructionPhase	PhaseStartDate	8/15/2021	10/22/2019
tblConstructionPhase	PhaseStartDate	9/21/2021	8/22/2019
tblConstructionPhase	PhaseStartDate	7/1/2019	7/6/2019
tblConstructionPhase	PhaseStartDate	6/2/2020	10/29/2019
tblConstructionPhase	PhaseStartDate	12/26/2019	8/3/2019
tblConstructionPhase	PhaseStartDate	3/12/2020	10/11/2019
tblGrading	AcresOfGrading	229.50	15.50
tblGrading	MaterialExported	0.00	181,164.00
tblGrading	MaterialImported	0.00	154,485.00
tblLandUse	LotAcreage	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	6.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	6.00
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tblOffRoadEquipment	PhaseName		Augur Bore 1
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tblOffRoadEquipment	PhaseName		Augur Bore 2
tblOffRoadEquipment	PhaseName		Augur Bore 2

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tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Augur Bore 1
tblOffRoadEquipment	PhaseName	Augur Bore 1
tblOffRoadEquipment	PhaseName	HDD
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tblOffRoadEquipment	PhaseName	HDD
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Augur Bore 2
tblOffRoadEquipment	PhaseName	Site Preparation

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tblOffRoadEquipment	PhaseName		Augur Bore 1
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
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tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
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tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	6.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00

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[illegible]

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tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripNumber	17,913.00	29,502.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,110.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
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tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripNumber	0.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	121.00
tblTripsAndVMT	VendorTripNumber	0.00	9.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	92.2191	833.3311	680.4368	1.7210	148.7745	37.8832	186.2577	20.0048	36.1738	56.0564	0.0000	171,289.69 24	171,289.69 24	28.3166	0.0000	171,997.60 61
Maximum	92.2191	833.3311	680.4368	1.7210	148.7745	37.8832	186.2577	20.0048	36.1738	56.0564	0.0000	171,289.69 24	171,289.69 24	28.3166	0.0000	171,997.60 61

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	39.5458	693.6154	782.5064	1.7210	83.1047	31.4566	114.1613	13.4513	31.3810	44.7101	0.0000	171,289.69 24	171,289.69 24	28.3166	0.0000	171,997.60 60
Maximum	39.5458	693.6154	782.5064	1.7210	83.1047	31.4566	114.1613	13.4513	31.3810	44.7101	0.0000	171,289.69 24	171,289.69 24	28.3166	0.0000	171,997.60 60

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	57.12	16.77	-15.00	0.00	44.14	16.96	38.71	32.76	13.25	20.24	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	17.8834	170.2079	104.3229	0.3466		6.3298	6.3298		5.8321	5.8321		33,502.6195	33,502.6195	10.7899		33,772.3665
Total	17.8834	170.2079	104.3230	0.3466	0.0000	6.3298	6.3298	0.0000	5.8321	5.8321		33,502.6197	33,502.6197	10.7899	0.0000	33,772.3668

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	17.8834	170.2079	104.3229	0.3466		6.3298	6.3298		5.8321	5.8321		33,502.6195	33,502.6195	10.7899		33,772.3665
Total	17.8834	170.2079	104.3230	0.3466	0.0000	6.3298	6.3298	0.0000	5.8321	5.8321		33,502.6197	33,502.6197	10.7899	0.0000	33,772.3668

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

3.0 Construction Detail**Construction Phase**

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/6/2019	12/31/2019	6	153	Pipe Installation
2	Augur Bore 1	Trenching	8/3/2019	10/18/2019	6	66	
3	HDD	Trenching	10/11/2019	12/31/2019	6	70	
4	Augur Bore 2	Trenching	10/29/2019	12/31/2019	6	55	
5	Worker Trips	Building Construction	7/1/2019	12/31/2019	6	158	
6	Mobilize	Building Construction	7/1/2019	9/25/2019	6	75	
7	Civil Work 1	Building Construction	8/10/2019	10/17/2019	6	59	
8	Demobilize 1	Building Construction	9/10/2019	10/14/2019	6	30	
9	Civil Work 2	Building Construction	10/22/2019	11/26/2019	6	31	
10	Grind and Cap	Paving	8/22/2019	12/31/2019	6	113	

Acres of Grading (Site Preparation Phase): 15.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Air Compressors	28	6.00	78	0.48
Site Preparation	Air Compressors	10	6.00	78	0.48
Site Preparation	Bore/Drill Rigs	5	7.00	221	0.50
Site Preparation	Concrete/Industrial Saws	8	5.00	81	0.73
Site Preparation	Cranes	5	7.00	231	0.29
Site Preparation	Crawler Tractors	3	8.00	212	0.43

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

Site Preparation	Excavators	18	7.00	158	0.38
Site Preparation	Excavators	10	7.00	158	0.38
Site Preparation	Excavators	5	6.00	158	0.38
Site Preparation	Excavators	10	6.00	158	0.38
Site Preparation	Generator Sets	10	8.00	84	0.74
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Off-Highway Trucks	5	8.00	402	0.38
Site Preparation	Off-Highway Trucks	5	6.00	402	0.38
Site Preparation	Other General Industrial Equipment	5	6.00	88	0.34
Site Preparation	Other Material Handling Equipment	5	6.00	168	0.40
Site Preparation	Rollers	4	6.00	80	0.38
Site Preparation	Rough Terrain Forklifts	5	6.00	100	0.40
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Rubber Tired Loaders	3	8.00	203	0.36
Site Preparation	Sweepers/Scrubbers	4	5.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	27	6.00	97	0.37
Site Preparation	Welders	40	7.00	46	0.45
Augur Bore 1	Air Compressors	3	5.00	78	0.48
Augur Bore 1	Bore/Drill Rigs	3	5.00	221	0.50
Augur Bore 1	Cranes	3	6.00	231	0.29
Augur Bore 1	Cranes	3	6.00	231	0.29
Augur Bore 1	Off-Highway Trucks	3	5.00	402	0.38
Augur Bore 1	Welders	6	6.00	46	0.45
HDD	Bore/Drill Rigs	3	7.00	221	0.50
HDD	Cranes	3	6.00	231	0.29
HDD	Generator Sets	3	7.00	84	0.74
HDD	Other Construction Equipment	3	7.00	172	0.42

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

HDD	Pumps	6	5.00	84	0.74
HDD	Pumps	3	7.00	84	0.74
HDD	Rough Terrain Forklifts	3	5.00	100	0.40
Augur Bore 2	Air Compressors	1	6.00	78	0.48
Augur Bore 2	Bore/Drill Rigs	1	6.00	221	0.50
Augur Bore 2	Cranes	1	7.00	231	0.29
Augur Bore 2	Cranes	1	7.00	231	0.29
Augur Bore 2	Off-Highway Trucks	1	6.00	402	0.38
Augur Bore 2	Welders	2	7.00	46	0.45
Worker Trips	Cranes	0	6.00	231	0.29
Worker Trips	Forklifts	0	6.00	89	0.20
Worker Trips	Generator Sets	0	8.00	84	0.74
Worker Trips	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Worker Trips	Welders	0	8.00	46	0.45
Mobilize	Cranes	0	6.00	231	0.29
Mobilize	Forklifts	0	6.00	89	0.20
Mobilize	Generator Sets	0	8.00	84	0.74
Mobilize	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Mobilize	Welders	0	8.00	46	0.45
Civil Work 1	Air Compressors	4	5.00	78	0.48
Civil Work 1	Cranes	0	6.00	231	0.29
Civil Work 1	Forklifts	0	6.00	89	0.20
Civil Work 1	Generator Sets	0	8.00	84	0.74
Civil Work 1	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Civil Work 1	Welders	0	8.00	46	0.45
Demobilize 1	Cranes	0	6.00	231	0.29
Demobilize 1	Forklifts	0	6.00	89	0.20

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

Demobilize 1	Generator Sets	0	8.00	84	0.74
Demobilize 1	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Demobilize 1	Welders	0	8.00	46	0.45
Civil Work 2	Air Compressors	1	6.00	78	0.48
Civil Work 2	Cranes	0	6.00	231	0.29
Civil Work 2	Forklifts	0	6.00	89	0.20
Civil Work 2	Generator Sets	0	8.00	84	0.74
Civil Work 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Civil Work 2	Welders	0	8.00	46	0.45
Grind and Cap	Cement and Mortar Mixers	0	6.00	9	0.56
Grind and Cap	Crushing/Proc. Equipment	4	5.00	85	0.78
Grind and Cap	Pavers	0	6.00	130	0.42
Grind and Cap	Paving Equipment	4	5.00	132	0.36
Grind and Cap	Rollers	4	6.00	80	0.38
Grind and Cap	Sweepers/Scrubbers	4	5.00	64	0.46
Grind and Cap	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	215	68.00	121.00	29,502.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 1	21	3.00	9.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
HDD	24	3.00	3.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 2	7	1.00	3.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Worker Trips	0	600.00	24.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Mobilize	0	0.00	15.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Civil Work 1	4	4.00	4.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 1	0	0.00	3.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Civil Work 2	1	1.00	1.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Grind and Cap	16	4.00	0.00	1,110.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.2 Site Preparation - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1074	0.0000	0.1074	0.0116	0.0000	0.0116			0.0000			0.0000
Off-Road	61.2160	510.4076	460.1274	0.8295		27.3692	27.3692		26.1227	26.1227		79,620.5606	79,620.5606	19.3215		80,103.5976
Total	61.2160	510.4076	460.1274	0.8295	0.1074	27.3692	27.4767	0.0116	26.1227	26.1343		79,620.5606	79,620.5606	19.3215		80,103.5976

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.9719	96.5016	22.4398	0.2857	120.1934	0.4222	120.6156	13.1597	0.4039	13.5636		31,168.4455	31,168.4455	2.5423		31,232.0035
Vendor	2.4933	34.3156	11.5743	0.1256	4.7221	0.8215	5.5436	1.4150	0.7858	2.2008		13,080.1157	13,080.1157	0.1779		13,084.5620
Worker	0.5953	0.4753	5.2705	0.0162	1.5505	0.0103	1.5608	0.4111	9.4900e-003	0.4206		1,614.9899	1,614.9899	0.0491		1,616.2180
Total	6.0605	131.2925	39.2846	0.4275	126.4660	1.2540	127.7200	14.9857	1.1993	16.1850		45,863.5511	45,863.5511	2.7693		45,932.7834

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.2 Site Preparation - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0484	0.0000	0.0484	5.2200e-003	0.0000	5.2200e-003			0.0000			0.0000
Off-Road	20.9385	415.5757	533.1797	0.8295		22.9865	22.9865		22.9865	22.9865	0.0000	79,620.5605	79,620.5605	19.3215		80,103.5975
Total	20.9385	415.5757	533.1797	0.8295	0.0484	22.9865	23.0348	5.2200e-003	22.9865	22.9917	0.0000	79,620.5605	79,620.5605	19.3215		80,103.5975

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.9719	96.5016	22.4398	0.2857	57.7631	0.4222	58.1853	6.9299	0.4039	7.3338		31,168.4455	31,168.4455	2.5423		31,232.0035
Vendor	2.4933	34.3156	11.5743	0.1256	4.7221	0.8215	5.5436	1.4150	0.7858	2.2008		13,080.1157	13,080.1157	0.1779		13,084.5620
Worker	0.5953	0.4753	5.2705	0.0162	1.5505	0.0103	1.5608	0.4111	9.4900e-003	0.4206		1,614.9899	1,614.9899	0.0491		1,616.2180
Total	6.0605	131.2925	39.2846	0.4275	64.0357	1.2540	65.2897	8.7560	1.1993	9.9552		45,863.5511	45,863.5511	2.7693		45,932.7834

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.3 Augur Bore 1 - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.5224	59.3317	34.4238	0.0872		2.6028	2.6028		2.4562	2.4562		8,398.3265	8,398.3265	2.3546		8,457.1923
Total	6.5224	59.3317	34.4238	0.0872		2.6028	2.6028		2.4562	2.4562		8,398.3265	8,398.3265	2.3546		8,457.1923

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1855	2.5524	0.8609	9.3400e-003	0.3512	0.0611	0.4123	0.1053	0.0585	0.1637		972.9012	972.9012	0.0132		973.2319
Worker	0.0263	0.0210	0.2325	7.1000e-004	0.0684	4.5000e-004	0.0689	0.0181	4.2000e-004	0.0186		71.2496	71.2496	2.1700e-003		71.3037
Total	0.2117	2.5734	1.0934	0.0101	0.4196	0.0616	0.4812	0.1234	0.0589	0.1823		1,044.1507	1,044.1507	0.0154		1,044.5356

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.3 Augur Bore 1 - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3077	43.5314	47.7756	0.0872		1.9317	1.9317		1.9317	1.9317	0.0000	8,398.3265	8,398.3265	2.3546		8,457.1923
Total	2.3077	43.5314	47.7756	0.0872		1.9317	1.9317		1.9317	1.9317	0.0000	8,398.3265	8,398.3265	2.3546		8,457.1923

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1855	2.5524	0.8609	9.3400e-003	0.3512	0.0611	0.4123	0.1053	0.0585	0.1637		972.9012	972.9012	0.0132		973.2319
Worker	0.0263	0.0210	0.2325	7.1000e-004	0.0684	4.5000e-004	0.0689	0.0181	4.2000e-004	0.0186		71.2496	71.2496	2.1700e-003		71.3037
Total	0.2117	2.5734	1.0934	0.0101	0.4196	0.0616	0.4812	0.1234	0.0589	0.1823		1,044.1507	1,044.1507	0.0154		1,044.5356

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.4 HDD - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.6765	75.8593	59.6638	0.1195		3.8926	3.8926		3.7499	3.7499		11,572.7738	11,572.7738	2.2566		11,629.1887
Total	7.6765	75.8593	59.6638	0.1195		3.8926	3.8926		3.7499	3.7499		11,572.7738	11,572.7738	2.2566		11,629.1887

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0618	0.8508	0.2870	3.1100e-003	0.1171	0.0204	0.1374	0.0351	0.0195	0.0546		324.3004	324.3004	4.4100e-003		324.4106
Worker	0.0263	0.0210	0.2325	7.1000e-004	0.0684	4.5000e-004	0.0689	0.0181	4.2000e-004	0.0186		71.2496	71.2496	2.1700e-003		71.3037
Total	0.0881	0.8718	0.5195	3.8200e-003	0.1855	0.0208	0.2063	0.0532	0.0199	0.0731		395.5499	395.5499	6.5800e-003		395.7144

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.4 HDD - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6770	56.4549	73.9891	0.1195		3.2071	3.2071		3.2071	3.2071	0.0000	11,572.7738	11,572.7738	2.2566		11,629.1886
Total	2.6770	56.4549	73.9891	0.1195		3.2071	3.2071		3.2071	3.2071	0.0000	11,572.7738	11,572.7738	2.2566		11,629.1886

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0618	0.8508	0.2870	3.1100e-003	0.1171	0.0204	0.1374	0.0351	0.0195	0.0546		324.3004	324.3004	4.4100e-003		324.4106
Worker	0.0263	0.0210	0.2325	7.1000e-004	0.0684	4.5000e-004	0.0689	0.0181	4.2000e-004	0.0186		71.2496	71.2496	2.1700e-003		71.3037
Total	0.0881	0.8718	0.5195	3.8200e-003	0.1855	0.0208	0.2063	0.0532	0.0199	0.0731		395.5499	395.5499	6.5800e-003		395.7144

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.5 Augur Bore 2 - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5645	23.3511	13.5645	0.0345		1.0234	1.0234		0.9658	0.9658		3,320.3962	3,320.3962	0.9311		3,343.6732
Total	2.5645	23.3511	13.5645	0.0345		1.0234	1.0234		0.9658	0.9658		3,320.3962	3,320.3962	0.9311		3,343.6732

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0618	0.8508	0.2870	3.1100e-003	0.1171	0.0204	0.1374	0.0351	0.0195	0.0546		324.3004	324.3004	4.4100e-003		324.4106
Worker	8.7500e-003	6.9900e-003	0.0775	2.4000e-004	0.0228	1.5000e-004	0.0230	6.0500e-003	1.4000e-004	6.1900e-003		23.7499	23.7499	7.2000e-004		23.7679
Total	0.0706	0.8578	0.3645	3.3500e-003	0.1399	0.0205	0.1604	0.0411	0.0196	0.0608		348.0502	348.0502	5.1300e-003		348.1785

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.5 Augur Bore 2 - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9107	17.1910	18.8818	0.0345		0.7624	0.7624		0.7624	0.7624	0.0000	3,320.3962	3,320.3962	0.9311		3,343.6732
Total	0.9107	17.1910	18.8818	0.0345		0.7624	0.7624		0.7624	0.7624	0.0000	3,320.3962	3,320.3962	0.9311		3,343.6732

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0618	0.8508	0.2870	3.1100e-003	0.1171	0.0204	0.1374	0.0351	0.0195	0.0546		324.3004	324.3004	4.4100e-003		324.4106
Worker	8.7500e-003	6.9900e-003	0.0775	2.4000e-004	0.0228	1.5000e-004	0.0230	6.0500e-003	1.4000e-004	6.1900e-003		23.7499	23.7499	7.2000e-004		23.7679
Total	0.0706	0.8578	0.3645	3.3500e-003	0.1399	0.0205	0.1604	0.0411	0.0196	0.0608		348.0502	348.0502	5.1300e-003		348.1785

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.6 Worker Trips - 2019**Unmitigated Construction On-Site**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4945	6.8064	2.2957	0.0249	0.9366	0.1629	1.0996	0.2807	0.1559	0.4365		2,594.4031	2,594.4031	0.0353		2,595.2850
Worker	5.2529	4.1939	46.5046	0.1430	13.6808	0.0908	13.7716	3.6274	0.0837	3.7111		14,249.9105	14,249.9105	0.4335		14,260.7469
Total	5.7475	11.0003	48.8004	0.1679	14.6174	0.2538	14.8711	3.9080	0.2396	4.1476		16,844.3136	16,844.3136	0.4687		16,856.0319

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.6 Worker Trips - 2019**Mitigated Construction On-Site**

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4945	6.8064	2.2957	0.0249	0.9366	0.1629	1.0996	0.2807	0.1559	0.4365		2,594.4031	2,594.4031	0.0353		2,595.2850
Worker	5.2529	4.1939	46.5046	0.1430	13.6808	0.0908	13.7716	3.6274	0.0837	3.7111		14,249.9105	14,249.9105	0.4335		14,260.7469
Total	5.7475	11.0003	48.8004	0.1679	14.6174	0.2538	14.8711	3.9080	0.2396	4.1476		16,844.3136	16,844.3136	0.4687		16,856.0319

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.7 Mobilize - 2019**Unmitigated Construction On-Site**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3091	4.2540	1.4348	0.0156	0.5854	0.1018	0.6872	0.1754	0.0974	0.2728		1,621.5020	1,621.5020	0.0221		1,622.0531
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.3091	4.2540	1.4348	0.0156	0.5854	0.1018	0.6872	0.1754	0.0974	0.2728		1,621.5020	1,621.5020	0.0221		1,622.0531

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.7 Mobilize - 2019**Mitigated Construction On-Site**

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3091	4.2540	1.4348	0.0156	0.5854	0.1018	0.6872	0.1754	0.0974	0.2728		1,621.5020	1,621.5020	0.0221		1,622.0531
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.3091	4.2540	1.4348	0.0156	0.5854	0.1018	0.6872	0.1754	0.0974	0.2728		1,621.5020	1,621.5020	0.0221		1,622.0531

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.8 Civil Work 1 - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8881	6.1179	6.1378	9.9000e-003		0.4292	0.4292		0.4292	0.4292		938.1602	938.1602	0.0792		940.1412
Total	0.8881	6.1179	6.1378	9.9000e-003		0.4292	0.4292		0.4292	0.4292		938.1602	938.1602	0.0792		940.1412

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0824	1.1344	0.3826	4.1500e-003	0.1561	0.0272	0.1833	0.0468	0.0260	0.0728		432.4005	432.4005	5.8800e-003		432.5475
Worker	0.0350	0.0280	0.3100	9.5000e-004	0.0912	6.1000e-004	0.0918	0.0242	5.6000e-004	0.0247		94.9994	94.9994	2.8900e-003		95.0717
Total	0.1174	1.1624	0.6927	5.1000e-003	0.2473	0.0278	0.2751	0.0710	0.0265	0.0975		527.3999	527.3999	8.7700e-003		527.6192

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.8 Civil Work 1 - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1981	4.5233	6.1080	9.9000e-003		0.3170	0.3170		0.3170	0.3170	0.0000	938.1602	938.1602	0.0792		940.1412
Total	0.1981	4.5233	6.1080	9.9000e-003		0.3170	0.3170		0.3170	0.3170	0.0000	938.1602	938.1602	0.0792		940.1412

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0824	1.1344	0.3826	4.1500e-003	0.1561	0.0272	0.1833	0.0468	0.0260	0.0728		432.4005	432.4005	5.8800e-003		432.5475
Worker	0.0350	0.0280	0.3100	9.5000e-004	0.0912	6.1000e-004	0.0918	0.0242	5.6000e-004	0.0247		94.9994	94.9994	2.8900e-003		95.0717
Total	0.1174	1.1624	0.6927	5.1000e-003	0.2473	0.0278	0.2751	0.0710	0.0265	0.0975		527.3999	527.3999	8.7700e-003		527.6192

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.9 Demobilize 1 - 2019**Unmitigated Construction On-Site**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0618	0.8508	0.2870	3.1100e-003	0.1171	0.0204	0.1374	0.0351	0.0195	0.0546		324.3004	324.3004	4.4100e-003		324.4106
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0618	0.8508	0.2870	3.1100e-003	0.1171	0.0204	0.1374	0.0351	0.0195	0.0546		324.3004	324.3004	4.4100e-003		324.4106

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.9 Demobilize 1 - 2019**Mitigated Construction On-Site**

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0618	0.8508	0.2870	3.1100e-003	0.1171	0.0204	0.1374	0.0351	0.0195	0.0546		324.3004	324.3004	4.4100e-003		324.4106
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0618	0.8508	0.2870	3.1100e-003	0.1171	0.0204	0.1374	0.0351	0.0195	0.0546		324.3004	324.3004	4.4100e-003		324.4106

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.10 Civil Work 2 - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0206	0.2836	0.0957	1.0400e-003	0.0390	6.7900e-003	0.0458	0.0117	6.4900e-003	0.0182		108.1001	108.1001	1.4700e-003		108.1369
Worker	8.7500e-003	6.9900e-003	0.0775	2.4000e-004	0.0228	1.5000e-004	0.0230	6.0500e-003	1.4000e-004	6.1900e-003		23.7499	23.7499	7.2000e-004		23.7679
Total	0.0294	0.2906	0.1732	1.2800e-003	0.0618	6.9400e-003	0.0688	0.0177	6.6300e-003	0.0244		131.8500	131.8500	2.1900e-003		131.9048

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.10 Civil Work 2 - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423
Total	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0206	0.2836	0.0957	1.0400e-003	0.0390	6.7900e-003	0.0458	0.0117	6.4900e-003	0.0182		108.1001	108.1001	1.4700e-003		108.1369
Worker	8.7500e-003	6.9900e-003	0.0775	2.4000e-004	0.0228	1.5000e-004	0.0230	6.0500e-003	1.4000e-004	6.1900e-003		23.7499	23.7499	7.2000e-004		23.7679
Total	0.0294	0.2906	0.1732	1.2800e-003	0.0618	6.9400e-003	0.0688	0.0177	6.6300e-003	0.0244		131.8500	131.8500	2.1900e-003		131.9048

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.11 Grind and Cap - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4426	28.9195	27.9533	0.0419		1.9291	1.9291		1.8311	1.8311		4,077.7923	4,077.7923	0.8990		4,100.2677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.4426	28.9195	27.9533	0.0419		1.9291	1.9291		1.8311	1.8311		4,077.7923	4,077.7923	0.8990		4,100.2677

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1514	4.9161	1.1432	0.0146	6.1230	0.0215	6.1445	0.6704	0.0206	0.6910		1,587.8141	1,587.8141	0.1295		1,591.0519
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0350	0.0280	0.3100	9.5000e-004	0.0912	6.1000e-004	0.0918	0.0242	5.6000e-004	0.0247		94.9994	94.9994	2.8900e-003		95.0717
Total	0.1864	4.9440	1.4532	0.0155	6.2142	0.0221	6.2363	0.6946	0.0211	0.7157		1,682.8135	1,682.8135	0.1324		1,686.1236

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

3.11 Grind and Cap - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9510	20.8350	29.3232	0.0419		1.3540	1.3540		1.3540	1.3540	0.0000	4,077.7923	4,077.7923	0.8990		4,100.2677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9510	20.8350	29.3232	0.0419		1.3540	1.3540		1.3540	1.3540	0.0000	4,077.7923	4,077.7923	0.8990		4,100.2677

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1514	4.9161	1.1432	0.0146	2.9426	0.0215	2.9641	0.3530	0.0206	0.3736		1,587.8141	1,587.8141	0.1295		1,591.0519
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0350	0.0280	0.3100	9.5000e-004	0.0912	6.1000e-004	0.0918	0.0242	5.6000e-004	0.0247		94.9994	94.9994	2.8900e-003		95.0717
Total	0.1864	4.9440	1.4532	0.0155	3.0338	0.0221	3.0559	0.3772	0.0211	0.3984		1,682.8135	1,682.8135	0.1324		1,686.1236

4.0 Operational Detail - Mobile

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

5.2 Energy by Land Use - NaturalGas**Unmitigated**

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

Mitigated

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

6.0 Area Detail**6.1 Mitigation Measures Area**

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

6.2 Area by SubCategory

Unmitigated

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

6.2 Area by SubCategory**Mitigated**

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

7.0 Water Detail

7.1 Mitigation Measures Water**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Aerial Lifts	1	10.00	1	63	0.31	Diesel
Cranes	1	10.00	1	231	0.29	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	2	402	0.38	Diesel
Off-Highway Trucks	1	10.00	4	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	6	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	4	10.00	4	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	2	10.00	2	402	0.38	Diesel
Off-Highway Trucks	1	10.00	240	402	0.38	Diesel
Off-Highway Trucks	1	10.00	12	402	0.38	Diesel
Tractors/Loaders/Backhoes	1	10.00	1	97	0.37	Diesel
Welders	1	10.00	1	46	0.45	Diesel

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Aerial Lifts	0.0495	0.8045	1.3678	2.1000e-003		0.0179	0.0179		0.0165	0.0165		203.2748	203.2748	0.0657		204.9184
Cranes	0.5668	6.7394	2.6442	7.2100e-003		0.2778	0.2778		0.2556	0.2556		698.4870	698.4870	0.2259		704.1347
Off-Highway Trucks	16.5777	158.0683	95.2525	0.3302		5.7590	5.7590		5.2983	5.2983		31,965.5498	31,965.5498	10.3383		32,224.0075
Tractors/Loaders/Backhoes	0.2619	2.6314	2.8496	3.8800e-003		0.1664	0.1664		0.1531	0.1531		375.9606	375.9606	0.1216		379.0005
Welders	0.4276	1.9642	2.2088	3.1900e-003		0.1086	0.1086		0.1086	0.1086		259.3472	259.3472	0.0383		260.3055
Total	17.8834	170.2079	104.3229	0.3466		6.3297	6.3297		5.8321	5.8321		33,502.6195	33,502.6195	10.7899		33,772.3665

10.0 Stationary EquipmentFire Pumps and Emergency Generators

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

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

Equipment Type	Number
----------------	--------

11.0 Vegetation

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Summer

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

SDG&E PSRP Natural Gas Transmission Project

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	1.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

Project Characteristics - Construction schedule from Chapter 3 - Project Description.

Land Use - User defined industrial land use type with no population and zero area.

Construction Phase - From Chapter 3- Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Off-road Equipment - From Chapter 3 - Project Description.

Trips and VMT - Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description. Average trips assumed to be 40 miles, commute trip length assumed at 30 miles.

On-road Fugitive Dust - Assume hauling trips are 99% paved.

Grading - Grading - Total Area Disturbed in 2019 = 15.5 acres

Area Coating -

Energy Use -

Construction Off-road Equipment Mitigation - Construction Off-road Equipment Mitigation - Assume that all equipment will be Tier 3.

Mobile Land Use Mitigation -

Operational Off-Road Equipment - From Chapter 3 - Project Description.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	47.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

[illegible]

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

[illegible]

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	2/4/2021	12/31/2019
tblConstructionPhase	PhaseEndDate	5/3/2021	9/25/2019
tblConstructionPhase	PhaseEndDate	7/10/2021	10/17/2019
tblConstructionPhase	PhaseEndDate	8/14/2021	10/14/2019
tblConstructionPhase	PhaseEndDate	9/20/2021	11/26/2019
tblConstructionPhase	PhaseEndDate	1/29/2022	12/31/2019
tblConstructionPhase	PhaseEndDate	12/25/2019	12/31/2019
tblConstructionPhase	PhaseEndDate	8/4/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	3/11/2020	10/18/2019
tblConstructionPhase	PhaseEndDate	6/1/2020	12/31/2019
tblConstructionPhase	PhaseStartDate	8/5/2020	7/1/2019
tblConstructionPhase	PhaseStartDate	2/5/2021	7/1/2019
tblConstructionPhase	PhaseStartDate	5/4/2021	8/10/2019
tblConstructionPhase	PhaseStartDate	7/11/2021	9/10/2019
tblConstructionPhase	PhaseStartDate	8/15/2021	10/22/2019
tblConstructionPhase	PhaseStartDate	9/21/2021	8/22/2019
tblConstructionPhase	PhaseStartDate	7/1/2019	7/6/2019
tblConstructionPhase	PhaseStartDate	6/2/2020	10/29/2019
tblConstructionPhase	PhaseStartDate	12/26/2019	8/3/2019
tblConstructionPhase	PhaseStartDate	3/12/2020	10/11/2019
tblGrading	AcresOfGrading	229.50	15.50
tblGrading	MaterialExported	0.00	181,164.00
tblGrading	MaterialImported	0.00	154,485.00
tblLandUse	LotAcreage	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	27.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	28.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
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	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	40.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	6.00
tblOffRoadEquipment	PhaseName		Augur Bore 2
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Augur Bore 1
tblOffRoadEquipment	PhaseName		Augur Bore 2
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Augur Bore 1
tblOffRoadEquipment	PhaseName		HDD
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Augur Bore 2
tblOffRoadEquipment	PhaseName		Augur Bore 2

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tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Augur Bore 1
tblOffRoadEquipment	PhaseName	Augur Bore 1
tblOffRoadEquipment	PhaseName	HDD
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	HDD
tblOffRoadEquipment	PhaseName	Augur Bore 2
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Augur Bore 1
tblOffRoadEquipment	PhaseName	HDD
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	HDD
tblOffRoadEquipment	PhaseName	HDD
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	HDD
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Site Preparation
tblOffRoadEquipment	PhaseName	Augur Bore 2
tblOffRoadEquipment	PhaseName	Site Preparation

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tblOffRoadEquipment	PhaseName		Augur Bore 1
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOnRoadDust	HaulingPercentPave	100.00	99.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
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tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	2.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00
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tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	6.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	1.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripNumber	17,913.00	29,502.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,110.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
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tblTripsAndVMT	VendorTripLength	7.30	40.00
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tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripNumber	0.00	24.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	121.00
tblTripsAndVMT	VendorTripNumber	0.00	9.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00
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tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripLength	10.80	30.00
tblTripsAndVMT	WorkerTripNumber	0.00	600.00
tblTripsAndVMT	WorkerTripNumber	18.00	1.00
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tblTripsAndVMT	WorkerTripNumber	53.00	3.00
tblTripsAndVMT	WorkerTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	40.00	4.00
tblTripsAndVMT	WorkerTripNumber	60.00	3.00
tblTripsAndVMT	WorkerTripNumber	0.00	1.00

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	93.4277	837.4280	676.6349	1.7081	148.7745	37.8892	186.2638	20.0048	36.1796	56.0622	0.0000	169,983.3265	169,983.3265	28.3376	0.0000	170,691.7668
Maximum	93.4277	837.4280	676.6349	1.7081	148.7745	37.8892	186.2638	20.0048	36.1796	56.0622	0.0000	169,983.3265	169,983.3265	28.3376	0.0000	170,691.7668

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	40.7543	697.7123	778.7045	1.7081	83.1047	31.4626	114.1674	13.4513	31.3868	44.7159	0.0000	169,983.3264	169,983.3264	28.3376	0.0000	170,691.7667
Maximum	40.7543	697.7123	778.7045	1.7081	83.1047	31.4626	114.1674	13.4513	31.3868	44.7159	0.0000	169,983.3264	169,983.3264	28.3376	0.0000	170,691.7667

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	56.38	16.68	-15.08	0.00	44.14	16.96	38.71	32.76	13.25	20.24	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	17.8834	170.2079	104.3229	0.3466		6.3298	6.3298		5.8321	5.8321		33,502.6195	33,502.6195	10.7899		33,772.3665
Total	17.8834	170.2079	104.3230	0.3466	0.0000	6.3298	6.3298	0.0000	5.8321	5.8321		33,502.6197	33,502.6197	10.7899	0.0000	33,772.3668

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Offroad	17.8834	170.2079	104.3229	0.3466		6.3298	6.3298		5.8321	5.8321		33,502.6195	33,502.6195	10.7899		33,772.3665
Total	17.8834	170.2079	104.3230	0.3466	0.0000	6.3298	6.3298	0.0000	5.8321	5.8321		33,502.6197	33,502.6197	10.7899	0.0000	33,772.3668

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

3.0 Construction Detail**Construction Phase**

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/6/2019	12/31/2019	6	153	Pipe Installation
2	Augur Bore 1	Trenching	8/3/2019	10/18/2019	6	66	
3	HDD	Trenching	10/11/2019	12/31/2019	6	70	
4	Augur Bore 2	Trenching	10/29/2019	12/31/2019	6	55	
5	Worker Trips	Building Construction	7/1/2019	12/31/2019	6	158	
6	Mobilize	Building Construction	7/1/2019	9/25/2019	6	75	
7	Civil Work 1	Building Construction	8/10/2019	10/17/2019	6	59	
8	Demobilize 1	Building Construction	9/10/2019	10/14/2019	6	30	
9	Civil Work 2	Building Construction	10/22/2019	11/26/2019	6	31	
10	Grind and Cap	Paving	8/22/2019	12/31/2019	6	113	

Acres of Grading (Site Preparation Phase): 15.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Air Compressors	28	6.00	78	0.48
Site Preparation	Air Compressors	10	6.00	78	0.48
Site Preparation	Bore/Drill Rigs	5	7.00	221	0.50
Site Preparation	Concrete/Industrial Saws	8	5.00	81	0.73
Site Preparation	Cranes	5	7.00	231	0.29
Site Preparation	Crawler Tractors	3	8.00	212	0.43

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Site Preparation	Excavators	18	7.00	158	0.38
Site Preparation	Excavators	10	7.00	158	0.38
Site Preparation	Excavators	5	6.00	158	0.38
Site Preparation	Excavators	10	6.00	158	0.38
Site Preparation	Generator Sets	10	8.00	84	0.74
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Off-Highway Trucks	5	8.00	402	0.38
Site Preparation	Off-Highway Trucks	5	6.00	402	0.38
Site Preparation	Other General Industrial Equipment	5	6.00	88	0.34
Site Preparation	Other Material Handling Equipment	5	6.00	168	0.40
Site Preparation	Rollers	4	6.00	80	0.38
Site Preparation	Rough Terrain Forklifts	5	6.00	100	0.40
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Rubber Tired Loaders	3	8.00	203	0.36
Site Preparation	Sweepers/Scrubbers	4	5.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	27	6.00	97	0.37
Site Preparation	Welders	40	7.00	46	0.45
Augur Bore 1	Air Compressors	3	5.00	78	0.48
Augur Bore 1	Bore/Drill Rigs	3	5.00	221	0.50
Augur Bore 1	Cranes	3	6.00	231	0.29
Augur Bore 1	Cranes	3	6.00	231	0.29
Augur Bore 1	Off-Highway Trucks	3	5.00	402	0.38
Augur Bore 1	Welders	6	6.00	46	0.45
HDD	Bore/Drill Rigs	3	7.00	221	0.50
HDD	Cranes	3	6.00	231	0.29
HDD	Generator Sets	3	7.00	84	0.74
HDD	Other Construction Equipment	3	7.00	172	0.42

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HDD	Pumps	6	5.00	84	0.74
HDD	Pumps	3	7.00	84	0.74
HDD	Rough Terrain Forklifts	3	5.00	100	0.40
Augur Bore 2	Air Compressors	1	6.00	78	0.48
Augur Bore 2	Bore/Drill Rigs	1	6.00	221	0.50
Augur Bore 2	Cranes	1	7.00	231	0.29
Augur Bore 2	Cranes	1	7.00	231	0.29
Augur Bore 2	Off-Highway Trucks	1	6.00	402	0.38
Augur Bore 2	Welders	2	7.00	46	0.45
Worker Trips	Cranes	0	6.00	231	0.29
Worker Trips	Forklifts	0	6.00	89	0.20
Worker Trips	Generator Sets	0	8.00	84	0.74
Worker Trips	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Worker Trips	Welders	0	8.00	46	0.45
Mobilize	Cranes	0	6.00	231	0.29
Mobilize	Forklifts	0	6.00	89	0.20
Mobilize	Generator Sets	0	8.00	84	0.74
Mobilize	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Mobilize	Welders	0	8.00	46	0.45
Civil Work 1	Air Compressors	4	5.00	78	0.48
Civil Work 1	Cranes	0	6.00	231	0.29
Civil Work 1	Forklifts	0	6.00	89	0.20
Civil Work 1	Generator Sets	0	8.00	84	0.74
Civil Work 1	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Civil Work 1	Welders	0	8.00	46	0.45
Demobilize 1	Cranes	0	6.00	231	0.29
Demobilize 1	Forklifts	0	6.00	89	0.20

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Demobilize 1	Generator Sets	0	8.00	84	0.74
Demobilize 1	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Demobilize 1	Welders	0	8.00	46	0.45
Civil Work 2	Air Compressors	1	6.00	78	0.48
Civil Work 2	Cranes	0	6.00	231	0.29
Civil Work 2	Forklifts	0	6.00	89	0.20
Civil Work 2	Generator Sets	0	8.00	84	0.74
Civil Work 2	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Civil Work 2	Welders	0	8.00	46	0.45
Grind and Cap	Cement and Mortar Mixers	0	6.00	9	0.56
Grind and Cap	Crushing/Proc. Equipment	4	5.00	85	0.78
Grind and Cap	Pavers	0	6.00	130	0.42
Grind and Cap	Paving Equipment	4	5.00	132	0.36
Grind and Cap	Rollers	4	6.00	80	0.38
Grind and Cap	Sweepers/Scrubbers	4	5.00	64	0.46
Grind and Cap	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	215	68.00	121.00	29,502.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 1	21	3.00	9.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
HDD	24	3.00	3.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Augur Bore 2	7	1.00	3.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Worker Trips	0	600.00	24.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Mobilize	0	0.00	15.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Civil Work 1	4	4.00	4.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Demobilize 1	0	0.00	3.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Civil Work 2	1	1.00	1.00	0.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT
Grind and Cap	16	4.00	0.00	1,110.00	30.00	40.00	40.00	LD_Mix	MHDT	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.2 Site Preparation - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1074	0.0000	0.1074	0.0116	0.0000	0.0116			0.0000			0.0000
Off-Road	61.2160	510.4076	460.1274	0.8295		27.3692	27.3692		26.1227	26.1227		79,620.5606	79,620.5606	19.3215		80,103.5976
Total	61.2160	510.4076	460.1274	0.8295	0.1074	27.3692	27.4767	0.0116	26.1227	26.1343		79,620.5606	79,620.5606	19.3215		80,103.5976

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0183	98.4620	23.2485	0.2831	120.1934	0.4273	120.6207	13.1597	0.4088	13.5685		30,887.6197	30,887.6197	2.5951		30,952.4978
Vendor	2.5406	35.3894	11.7125	0.1255	4.7221	0.8219	5.5441	1.4150	0.7863	2.2013		13,074.4422	13,074.4422	0.1772		13,078.8720
Worker	0.7046	0.5333	4.7880	0.0152	1.5505	0.0103	1.5608	0.4111	9.4900e-003	0.4206		1,514.9297	1,514.9297	0.0458		1,516.0743
Total	6.2635	134.3846	39.7490	0.4238	126.4660	1.2595	127.7256	14.9857	1.2046	16.1903		45,476.9916	45,476.9916	2.8181		45,547.4440

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.2 Site Preparation - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0484	0.0000	0.0484	5.2200e-003	0.0000	5.2200e-003			0.0000			0.0000
Off-Road	20.9385	415.5757	533.1797	0.8295		22.9865	22.9865		22.9865	22.9865	0.0000	79,620.5605	79,620.5605	19.3215		80,103.5975
Total	20.9385	415.5757	533.1797	0.8295	0.0484	22.9865	23.0348	5.2200e-003	22.9865	22.9917	0.0000	79,620.5605	79,620.5605	19.3215		80,103.5975

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0183	98.4620	23.2485	0.2831	57.7631	0.4273	58.1904	6.9299	0.4088	7.3387		30,887.6197	30,887.6197	2.5951		30,952.4978
Vendor	2.5406	35.3894	11.7125	0.1255	4.7221	0.8219	5.5441	1.4150	0.7863	2.2013		13,074.4422	13,074.4422	0.1772		13,078.8720
Worker	0.7046	0.5333	4.7880	0.0152	1.5505	0.0103	1.5608	0.4111	9.4900e-003	0.4206		1,514.9297	1,514.9297	0.0458		1,516.0743
Total	6.2635	134.3846	39.7490	0.4238	64.0357	1.2595	65.2953	8.7560	1.2046	9.9606		45,476.9916	45,476.9916	2.8181		45,547.4440

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.3 Augur Bore 1 - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.5224	59.3317	34.4238	0.0872		2.6028	2.6028		2.4562	2.4562		8,398.3265	8,398.3265	2.3546		8,457.1923
Total	6.5224	59.3317	34.4238	0.0872		2.6028	2.6028		2.4562	2.4562		8,398.3265	8,398.3265	2.3546		8,457.1923

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1890	2.6323	0.8712	9.3400e-003	0.3512	0.0611	0.4124	0.1053	0.0585	0.1637		972.4792	972.4792	0.0132		972.8087
Worker	0.0311	0.0235	0.2112	6.7000e-004	0.0684	4.5000e-004	0.0689	0.0181	4.2000e-004	0.0186		66.8351	66.8351	2.0200e-003		66.8856
Total	0.2201	2.6558	1.0824	0.0100	0.4196	0.0616	0.4812	0.1234	0.0589	0.1823		1,039.3143	1,039.3143	0.0152		1,039.6943

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.3 Augur Bore 1 - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3077	43.5314	47.7756	0.0872		1.9317	1.9317		1.9317	1.9317	0.0000	8,398.3265	8,398.3265	2.3546		8,457.1923
Total	2.3077	43.5314	47.7756	0.0872		1.9317	1.9317		1.9317	1.9317	0.0000	8,398.3265	8,398.3265	2.3546		8,457.1923

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1890	2.6323	0.8712	9.3400e-003	0.3512	0.0611	0.4124	0.1053	0.0585	0.1637		972.4792	972.4792	0.0132		972.8087
Worker	0.0311	0.0235	0.2112	6.7000e-004	0.0684	4.5000e-004	0.0689	0.0181	4.2000e-004	0.0186		66.8351	66.8351	2.0200e-003		66.8856
Total	0.2201	2.6558	1.0824	0.0100	0.4196	0.0616	0.4812	0.1234	0.0589	0.1823		1,039.3143	1,039.3143	0.0152		1,039.6943

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.4 HDD - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.6765	75.8593	59.6638	0.1195		3.8926	3.8926		3.7499	3.7499		11,572.7738	11,572.7738	2.2566		11,629.1887
Total	7.6765	75.8593	59.6638	0.1195		3.8926	3.8926		3.7499	3.7499		11,572.7738	11,572.7738	2.2566		11,629.1887

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0630	0.8774	0.2904	3.1100e-003	0.1171	0.0204	0.1375	0.0351	0.0195	0.0546		324.1597	324.1597	4.3900e-003		324.2696
Worker	0.0311	0.0235	0.2112	6.7000e-004	0.0684	4.5000e-004	0.0689	0.0181	4.2000e-004	0.0186		66.8351	66.8351	2.0200e-003		66.8856
Total	0.0941	0.9010	0.5016	3.7800e-003	0.1855	0.0208	0.2063	0.0532	0.0199	0.0731		390.9949	390.9949	6.4100e-003		391.1552

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.4 HDD - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6770	56.4549	73.9891	0.1195		3.2071	3.2071		3.2071	3.2071	0.0000	11,572.7738	11,572.7738	2.2566		11,629.1886
Total	2.6770	56.4549	73.9891	0.1195		3.2071	3.2071		3.2071	3.2071	0.0000	11,572.7738	11,572.7738	2.2566		11,629.1886

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0630	0.8774	0.2904	3.1100e-003	0.1171	0.0204	0.1375	0.0351	0.0195	0.0546		324.1597	324.1597	4.3900e-003		324.2696
Worker	0.0311	0.0235	0.2112	6.7000e-004	0.0684	4.5000e-004	0.0689	0.0181	4.2000e-004	0.0186		66.8351	66.8351	2.0200e-003		66.8856
Total	0.0941	0.9010	0.5016	3.7800e-003	0.1855	0.0208	0.2063	0.0532	0.0199	0.0731		390.9949	390.9949	6.4100e-003		391.1552

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.5 Augur Bore 2 - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5645	23.3511	13.5645	0.0345		1.0234	1.0234		0.9658	0.9658		3,320.3962	3,320.3962	0.9311		3,343.6732
Total	2.5645	23.3511	13.5645	0.0345		1.0234	1.0234		0.9658	0.9658		3,320.3962	3,320.3962	0.9311		3,343.6732

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0630	0.8774	0.2904	3.1100e-003	0.1171	0.0204	0.1375	0.0351	0.0195	0.0546		324.1597	324.1597	4.3900e-003		324.2696
Worker	0.0104	7.8400e-003	0.0704	2.2000e-004	0.0228	1.5000e-004	0.0230	6.0500e-003	1.4000e-004	6.1900e-003		22.2784	22.2784	6.7000e-004		22.2952
Total	0.0734	0.8853	0.3608	3.3300e-003	0.1399	0.0205	0.1604	0.0411	0.0196	0.0608		346.4381	346.4381	5.0600e-003		346.5648

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.5 Augur Bore 2 - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9107	17.1910	18.8818	0.0345		0.7624	0.7624		0.7624	0.7624	0.0000	3,320.3962	3,320.3962	0.9311		3,343.6732
Total	0.9107	17.1910	18.8818	0.0345		0.7624	0.7624		0.7624	0.7624	0.0000	3,320.3962	3,320.3962	0.9311		3,343.6732

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0630	0.8774	0.2904	3.1100e-003	0.1171	0.0204	0.1375	0.0351	0.0195	0.0546		324.1597	324.1597	4.3900e-003		324.2696
Worker	0.0104	7.8400e-003	0.0704	2.2000e-004	0.0228	1.5000e-004	0.0230	6.0500e-003	1.4000e-004	6.1900e-003		22.2784	22.2784	6.7000e-004		22.2952
Total	0.0734	0.8853	0.3608	3.3300e-003	0.1399	0.0205	0.1604	0.0411	0.0196	0.0608		346.4381	346.4381	5.0600e-003		346.5648

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.6 Worker Trips - 2019**Unmitigated Construction On-Site**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5039	7.0194	2.3231	0.0249	0.9366	0.1630	1.0997	0.2807	0.1560	0.4366		2,593.2778	2,593.2778	0.0352		2,594.1564
Worker	6.2168	4.7053	42.2474	0.1341	13.6808	0.0908	13.7716	3.6274	0.0837	3.7111		13,367.0269	13,367.0269	0.4040		13,377.1258
Total	6.7208	11.7247	44.5705	0.1590	14.6174	0.2539	14.8712	3.9080	0.2397	4.1477		15,960.3047	15,960.3047	0.4391		15,971.2823

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.6 Worker Trips - 2019**Mitigated Construction On-Site**

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5039	7.0194	2.3231	0.0249	0.9366	0.1630	1.0997	0.2807	0.1560	0.4366		2,593.2778	2,593.2778	0.0352		2,594.1564
Worker	6.2168	4.7053	42.2474	0.1341	13.6808	0.0908	13.7716	3.6274	0.0837	3.7111		13,367.0269	13,367.0269	0.4040		13,377.1258
Total	6.7208	11.7247	44.5705	0.1590	14.6174	0.2539	14.8712	3.9080	0.2397	4.1477		15,960.3047	15,960.3047	0.4391		15,971.2823

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.7 Mobilize - 2019**Unmitigated Construction On-Site**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3150	4.3871	1.4520	0.0156	0.5854	0.1019	0.6873	0.1754	0.0975	0.2729		1,620.7986	1,620.7986	0.0220		1,621.3478
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.3150	4.3871	1.4520	0.0156	0.5854	0.1019	0.6873	0.1754	0.0975	0.2729		1,620.7986	1,620.7986	0.0220		1,621.3478

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.7 Mobilize - 2019**Mitigated Construction On-Site**

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3150	4.3871	1.4520	0.0156	0.5854	0.1019	0.6873	0.1754	0.0975	0.2729		1,620.7986	1,620.7986	0.0220		1,621.3478
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.3150	4.3871	1.4520	0.0156	0.5854	0.1019	0.6873	0.1754	0.0975	0.2729		1,620.7986	1,620.7986	0.0220		1,621.3478

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.8 Civil Work 1 - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8881	6.1179	6.1378	9.9000e-003		0.4292	0.4292		0.4292	0.4292		938.1602	938.1602	0.0792		940.1412
Total	0.8881	6.1179	6.1378	9.9000e-003		0.4292	0.4292		0.4292	0.4292		938.1602	938.1602	0.0792		940.1412

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0840	1.1699	0.3872	4.1500e-003	0.1561	0.0272	0.1833	0.0468	0.0260	0.0728		432.2130	432.2130	5.8600e-003		432.3594
Worker	0.0415	0.0314	0.2817	8.9000e-004	0.0912	6.1000e-004	0.0918	0.0242	5.6000e-004	0.0247		89.1135	89.1135	2.6900e-003		89.1808
Total	0.1254	1.2013	0.6688	5.0400e-003	0.2473	0.0278	0.2751	0.0710	0.0266	0.0975		521.3265	521.3265	8.5500e-003		521.5402

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.8 Civil Work 1 - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1981	4.5233	6.1080	9.9000e-003		0.3170	0.3170		0.3170	0.3170	0.0000	938.1602	938.1602	0.0792		940.1412
Total	0.1981	4.5233	6.1080	9.9000e-003		0.3170	0.3170		0.3170	0.3170	0.0000	938.1602	938.1602	0.0792		940.1412

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0840	1.1699	0.3872	4.1500e-003	0.1561	0.0272	0.1833	0.0468	0.0260	0.0728		432.2130	432.2130	5.8600e-003		432.3594
Worker	0.0415	0.0314	0.2817	8.9000e-004	0.0912	6.1000e-004	0.0918	0.0242	5.6000e-004	0.0247		89.1135	89.1135	2.6900e-003		89.1808
Total	0.1254	1.2013	0.6688	5.0400e-003	0.2473	0.0278	0.2751	0.0710	0.0266	0.0975		521.3265	521.3265	8.5500e-003		521.5402

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.9 Demobilize 1 - 2019**Unmitigated Construction On-Site**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0630	0.8774	0.2904	3.1100e-003	0.1171	0.0204	0.1375	0.0351	0.0195	0.0546		324.1597	324.1597	4.3900e-003		324.2696
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0630	0.8774	0.2904	3.1100e-003	0.1171	0.0204	0.1375	0.0351	0.0195	0.0546		324.1597	324.1597	4.3900e-003		324.2696

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.9 Demobilize 1 - 2019**Mitigated Construction On-Site**

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0630	0.8774	0.2904	3.1100e-003	0.1171	0.0204	0.1375	0.0351	0.0195	0.0546		324.1597	324.1597	4.3900e-003		324.2696
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0630	0.8774	0.2904	3.1100e-003	0.1171	0.0204	0.1375	0.0351	0.0195	0.0546		324.1597	324.1597	4.3900e-003		324.2696

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.10 Civil Work 2 - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0210	0.2925	0.0968	1.0400e-003	0.0390	6.7900e-003	0.0458	0.0117	6.5000e-003	0.0182		108.0532	108.0532	1.4600e-003		108.0899
Worker	0.0104	7.8400e-003	0.0704	2.2000e-004	0.0228	1.5000e-004	0.0230	6.0500e-003	1.4000e-004	6.1900e-003		22.2784	22.2784	6.7000e-004		22.2952
Total	0.0314	0.3003	0.1672	1.2600e-003	0.0618	6.9400e-003	0.0688	0.0177	6.6400e-003	0.0244		130.3316	130.3316	2.1300e-003		130.3851

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.10 Civil Work 2 - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423
Total	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0210	0.2925	0.0968	1.0400e-003	0.0390	6.7900e-003	0.0458	0.0117	6.5000e-003	0.0182		108.0532	108.0532	1.4600e-003		108.0899
Worker	0.0104	7.8400e-003	0.0704	2.2000e-004	0.0228	1.5000e-004	0.0230	6.0500e-003	1.4000e-004	6.1900e-003		22.2784	22.2784	6.7000e-004		22.2952
Total	0.0314	0.3003	0.1672	1.2600e-003	0.0618	6.9400e-003	0.0688	0.0177	6.6400e-003	0.0244		130.3316	130.3316	2.1300e-003		130.3851

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.11 Grind and Cap - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4426	28.9195	27.9533	0.0419		1.9291	1.9291		1.8311	1.8311		4,077.7923	4,077.7923	0.8990		4,100.2677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.4426	28.9195	27.9533	0.0419		1.9291	1.9291		1.8311	1.8311		4,077.7923	4,077.7923	0.8990		4,100.2677

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1538	5.0160	1.1844	0.0144	6.1230	0.0218	6.1448	0.6704	0.0208	0.6912		1,573.5080	1,573.5080	0.1322		1,576.8131
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0415	0.0314	0.2817	8.9000e-004	0.0912	6.1000e-004	0.0918	0.0242	5.6000e-004	0.0247		89.1135	89.1135	2.6900e-003		89.1808
Total	0.1952	5.0473	1.4660	0.0153	6.2142	0.0224	6.2366	0.6946	0.0214	0.7160		1,662.6215	1,662.6215	0.1349		1,665.9939

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

3.11 Grind and Cap - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9510	20.8350	29.3232	0.0419		1.3540	1.3540		1.3540	1.3540	0.0000	4,077.7923	4,077.7923	0.8990		4,100.2677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9510	20.8350	29.3232	0.0419		1.3540	1.3540		1.3540	1.3540	0.0000	4,077.7923	4,077.7923	0.8990		4,100.2677

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1538	5.0160	1.1844	0.0144	2.9426	0.0218	2.9644	0.3530	0.0208	0.3739		1,573.5080	1,573.5080	0.1322		1,576.8131
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0415	0.0314	0.2817	8.9000e-004	0.0912	6.1000e-004	0.0918	0.0242	5.6000e-004	0.0247		89.1135	89.1135	2.6900e-003		89.1808
Total	0.1952	5.0473	1.4660	0.0153	3.0338	0.0224	3.0562	0.3772	0.0214	0.3986		1,662.6215	1,662.6215	0.1349		1,665.9939

4.0 Operational Detail - Mobile

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.588316	0.042913	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

5.2 Energy by Land Use - NaturalGas**Unmitigated**

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

Mitigated

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

6.0 Area Detail**6.1 Mitigation Measures Area**

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

6.2 Area by SubCategory

Unmitigated

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

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

6.2 Area by SubCategory**Mitigated**

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

7.0 Water Detail

7.1 Mitigation Measures Water**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Aerial Lifts	1	10.00	1	63	0.31	Diesel
Cranes	1	10.00	1	231	0.29	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	2	402	0.38	Diesel
Off-Highway Trucks	1	10.00	4	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	6	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	4	10.00	4	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	1	10.00	1	402	0.38	Diesel
Off-Highway Trucks	2	10.00	2	402	0.38	Diesel
Off-Highway Trucks	1	10.00	240	402	0.38	Diesel
Off-Highway Trucks	1	10.00	12	402	0.38	Diesel
Tractors/Loaders/Backhoes	1	10.00	1	97	0.37	Diesel
Welders	1	10.00	1	46	0.45	Diesel

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Aerial Lifts	0.0495	0.8045	1.3678	2.1000e-003		0.0179	0.0179		0.0165	0.0165		203.2748	203.2748	0.0657		204.9184
Cranes	0.5668	6.7394	2.6442	7.2100e-003		0.2778	0.2778		0.2556	0.2556		698.4870	698.4870	0.2259		704.1347
Off-Highway Trucks	16.5777	158.0683	95.2525	0.3302		5.7590	5.7590		5.2983	5.2983		31,965.5498	31,965.5498	10.3383		32,224.0075
Tractors/Loaders/Backhoes	0.2619	2.6314	2.8496	3.8800e-003		0.1664	0.1664		0.1531	0.1531		375.9606	375.9606	0.1216		379.0005
Welders	0.4276	1.9642	2.2088	3.1900e-003		0.1086	0.1086		0.1086	0.1086		259.3472	259.3472	0.0383		260.3055
Total	17.8834	170.2079	104.3229	0.3466		6.3297	6.3297		5.8321	5.8321		33,502.6195	33,502.6195	10.7899		33,772.3665

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

SDG&E PSRP Natural Gas Transmission Project - San Diego County, Winter

SDG&E PSRP Natural Gas Transmission Project

San Diego County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Augur Bore 1	0.63	0.25	-0.38	0.00	0.25	0.21	0.00	0.00	0.00	0.00	0.00	0.00
Augur Bore 2	0.63	0.25	-0.38	0.00	0.25	0.21	0.00	0.00	0.00	0.00	0.00	0.00
Civil Work 1	0.69	0.22	0.00	0.00	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00
Civil Work 2	0.70	0.22	0.00	0.00	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00
Demobilize 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grind and Cap	0.69	0.24	-0.05	0.00	0.29	0.26	0.00	0.00	0.00	0.00	0.00	0.00
HDD	0.64	0.25	-0.24	0.00	0.18	0.14	0.00	0.00	0.00	0.00	0.00	0.00
Mobilize	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.60	0.15	-0.15	0.00	0.15	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 3	47	47	No Change	0.00
Bore/Drill Rigs	Diesel	Tier 3	12	12	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	0	No Change	0.00
Concrete/Industrial Saws	Diesel	Tier 3	8	8	No Change	0.00

Cranes	Diesel	Tier 3	16	16	No Change	0.00
Crawler Tractors	Diesel	Tier 3	3	3	No Change	0.00
Crushing/Proc. Equipment	Diesel	Tier 3	4	4	No Change	0.00
Excavators	Diesel	Tier 3	43	43	No Change	0.00
Forklifts	Diesel	Tier 3	0	0	No Change	0.00
Generator Sets	Diesel	Tier 3	13	13	No Change	0.00
Graders	Diesel	No Change	0	0	No Change	0.00
Off-Highway Trucks	Diesel	Tier 3	14	14	No Change	0.00
Other Construction Equipment	Diesel	Tier 3	3	3	No Change	0.00
Other General Industrial Equipment	Diesel	Tier 3	5	5	No Change	0.00
Other Material Handling Equipment	Diesel	Tier 3	5	5	No Change	0.00
Pavers	Diesel	No Change	0	0	No Change	0.00
Paving Equipment	Diesel	Tier 3	4	4	No Change	0.00
Pumps	Diesel	Tier 3	9	9	No Change	0.00
Rollers	Diesel	Tier 3	8	8	No Change	0.00
Rough Terrain Forklifts	Diesel	Tier 3	8	8	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	0	No Change	0.00
Rubber Tired Loaders	Diesel	Tier 3	3	3	No Change	0.00
Sweepers/Scrubbers	Diesel	Tier 3	8	8	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 3	27	27	No Change	0.00
Welders	Diesel	Tier 3	48	48	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	8.34190E-001	5.74628E+000	5.76489E+000	9.30000E-003	4.03140E-001	4.03140E-001	0.00000E+000	7.99381E+002	7.99381E+002	6.75200E-002	0.00000E+000	8.01069E+002
Bore/Drill Rigs	1.42230E-001	1.87935E+000	1.05220E+000	4.77000E-003	5.33000E-002	4.90300E-002	0.00000E+000	4.28221E+002	4.28221E+002	1.35480E-001	0.00000E+000	4.31608E+002
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	1.76710E-001	1.37261E+000	1.41609E+000	2.39000E-003	8.77600E-002	8.77600E-002	0.00000E+000	2.05654E+002	2.05654E+002	1.44800E-002	0.00000E+000	2.06016E+002
Cranes	3.07490E-001	3.66464E+000	1.39890E+000	3.52000E-003	1.55340E-001	1.42910E-001	0.00000E+000	3.16130E+002	3.16130E+002	1.00020E-001	0.00000E+000	3.18631E+002
Crawler Tractors	1.40070E-001	1.83464E+000	5.92020E-001	1.80000E-003	6.91800E-002	6.36500E-002	0.00000E+000	1.61829E+002	1.61829E+002	5.12000E-002	0.00000E+000	1.63109E+002
Crushing/Proc. Equipment	8.57200E-002	5.85360E-001	6.17560E-001	9.90000E-004	3.98100E-002	3.98100E-002	0.00000E+000	8.51528E+001	8.51528E+001	6.89000E-003	0.00000E+000	8.53251E+001
Excavators	7.13060E-001	7.33459E+000	8.92447E+000	1.41200E-002	3.53720E-001	3.25420E-001	0.00000E+000	1.26812E+003	1.26812E+003	4.01220E-001	0.00000E+000	1.27815E+003
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Generator Sets	3.80460E-001	3.23719E+000	3.19022E+000	5.64000E-003	1.93520E-001	1.93520E-001	0.00000E+000	4.84312E+002	4.84312E+002	3.06800E-002	0.00000E+000	4.85079E+002
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Off-Highway Trucks	5.33760E-001	5.40566E+000	3.00508E+000	9.93000E-003	1.96580E-001	1.80850E-001	0.00000E+000	8.91990E+002	8.91990E+002	2.82220E-001	0.00000E+000	8.99045E+002
Other Construction Equipment	4.82300E-002	5.18930E-001	3.81160E-001	5.70000E-004	2.73300E-002	2.51400E-002	0.00000E+000	5.10205E+001	5.10205E+001	1.61400E-002	0.00000E+000	5.14241E+001
Other General Industrial Equipment	7.56400E-002	6.80730E-001	5.78480E-001	7.30000E-004	5.19100E-002	4.77500E-002	0.00000E+000	6.59808E+001	6.59808E+001	2.08800E-002	0.00000E+000	6.65026E+001
Other Material Handling Equipment	9.50700E-002	9.43070E-001	1.08298E+000	1.66000E-003	4.71900E-002	4.34200E-002	0.00000E+000	1.48892E+002	1.48892E+002	4.71100E-002	0.00000E+000	1.50070E+002
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	3.00800E-002	3.18730E-001	3.56440E-001	5.80000E-004	1.58100E-002	1.45500E-002	0.00000E+000	5.16813E+001	5.16813E+001	1.63500E-002	0.00000E+000	5.20901E+001
Pumps	1.04940E-001	8.55420E-001	8.43680E-001	1.47000E-003	5.30800E-002	5.30800E-002	0.00000E+000	1.26112E+002	1.26112E+002	8.43000E-003	0.00000E+000	1.26323E+002
Rollers	9.03900E-002	8.94120E-001	7.61000E-001	1.05000E-003	5.87800E-002	5.40800E-002	0.00000E+000	9.39969E+001	9.39969E+001	2.97400E-002	0.00000E+000	9.47404E+001
Rough Terrain Forklifts	5.02100E-002	6.52090E-001	8.10320E-001	1.21000E-003	2.90500E-002	2.67300E-002	0.00000E+000	1.09035E+002	1.09035E+002	3.45000E-002	0.00000E+000	1.09897E+002

Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Loaders	9.15200E-002	1.10765E+000	3.85280E-001	1.43000E-003	3.71400E-002	3.41700E-002	0.00000E+000	1.28835E+002	1.28835E+002	4.07600E-002	0.00000E+000	1.29854E+002
Sweepers/Scrubbers	9.48800E-002	8.23960E-001	6.64000E-001	8.40000E-004	6.68600E-002	6.15100E-002	0.00000E+000	7.59065E+001	7.59065E+001	2.40200E-002	0.00000E+000	7.65069E+001
Tractors/Loaders/Backhoes	3.60650E-001	3.62087E+000	3.56714E+000	4.81000E-003	2.41730E-001	2.22390E-001	0.00000E+000	4.32202E+002	4.32202E+002	1.36740E-001	0.00000E+000	4.35620E+002
Welders	1.10701E+000	4.66834E+000	5.19404E+000	7.35000E-003	2.86460E-001	2.86460E-001	0.00000E+000	5.40970E+002	5.40970E+002	9.04300E-002	0.00000E+000	5.43230E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.86060E-001	4.24846E+000	5.73697E+000	9.30000E-003	2.97700E-001	2.97700E-001	0.00000E+000	7.99380E+002	7.99380E+002	6.75200E-002	0.00000E+000	8.01068E+002
Bore/Drill Rigs	1.19050E-001	2.30168E+000	2.57947E+000	4.77000E-003	8.73100E-002	8.73100E-002	0.00000E+000	4.28221E+002	4.28221E+002	1.35480E-001	0.00000E+000	4.31608E+002
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	4.78700E-002	1.09298E+000	1.47593E+000	2.39000E-003	7.65900E-002	7.65900E-002	0.00000E+000	2.05654E+002	2.05654E+002	1.44800E-002	0.00000E+000	2.06016E+002
Cranes	8.64900E-002	1.67223E+000	1.87405E+000	3.52000E-003	6.34300E-002	6.34300E-002	0.00000E+000	3.16130E+002	3.16130E+002	1.00020E-001	0.00000E+000	3.18631E+002
Crawler Tractors	4.42800E-002	8.56050E-001	9.59370E-001	1.80000E-003	3.24700E-002	3.24700E-002	0.00000E+000	1.61829E+002	1.61829E+002	5.12000E-002	0.00000E+000	1.63109E+002
Crushing/Proc. Equipment	1.98200E-002	4.52560E-001	6.11120E-001	9.90000E-004	3.17100E-002	3.17100E-002	0.00000E+000	8.51527E+001	8.51527E+001	6.89000E-003	0.00000E+000	8.53250E+001
Excavators	3.47520E-001	6.71877E+000	1.07153E+001	1.41200E-002	3.24350E-001	3.24350E-001	0.00000E+000	1.26812E+003	1.26812E+003	4.01220E-001	0.00000E+000	1.27815E+003
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Generator Sets	1.12730E-001	2.57397E+000	3.47579E+000	5.64000E-003	1.80370E-001	1.80370E-001	0.00000E+000	4.84312E+002	4.84312E+002	3.06800E-002	0.00000E+000	4.85079E+002
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Off-Highway Trucks	2.43090E-001	4.69967E+000	5.26687E+000	9.93000E-003	1.78260E-001	1.78260E-001	0.00000E+000	8.91989E+002	8.91989E+002	2.82220E-001	0.00000E+000	8.99044E+002
Other Construction Equipment	1.40500E-002	2.71570E-001	4.33110E-001	5.70000E-004	1.31100E-002	1.31100E-002	0.00000E+000	5.10205E+001	5.10205E+001	1.61400E-002	0.00000E+000	5.14240E+001
Other General Industrial Equipment	1.81700E-002	4.14790E-001	5.60120E-001	7.30000E-004	2.90700E-002	2.90700E-002	0.00000E+000	6.59807E+001	6.59807E+001	2.08800E-002	0.00000E+000	6.65026E+001
Other Material Handling Equipment	4.08000E-002	7.88810E-001	1.25802E+000	1.66000E-003	3.80800E-002	3.80800E-002	0.00000E+000	1.48892E+002	1.48892E+002	4.71100E-002	0.00000E+000	1.50069E+002

Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	1.42100E-002	2.74650E-001	4.38020E-001	5.80000E-004	1.32600E-002	1.32600E-002	0.00000E+000	5.16812E+001	5.16812E+001	1.63500E-002	0.00000E+000	5.20900E+001
Pumps	2.93500E-002	6.70240E-001	9.05080E-001	1.47000E-003	4.69700E-002	4.69700E-002	0.00000E+000	1.26112E+002	1.26112E+002	8.43000E-003	0.00000E+000	1.26323E+002
Rollers	2.56700E-002	5.86170E-001	7.91540E-001	1.05000E-003	4.10700E-002	4.10700E-002	0.00000E+000	9.39968E+001	9.39968E+001	2.97400E-002	0.00000E+000	9.47403E+001
Rough Terrain Forklifts	2.98400E-002	6.81390E-001	9.20120E-001	1.21000E-003	4.77500E-002	4.77500E-002	0.00000E+000	1.09035E+002	1.09035E+002	3.45000E-002	0.00000E+000	1.09897E+002
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Loaders	3.55000E-002	6.86270E-001	7.69090E-001	1.43000E-003	2.60300E-002	2.60300E-002	0.00000E+000	1.28834E+002	1.28834E+002	4.07600E-002	0.00000E+000	1.29854E+002
Sweepers/Scrubbers	2.07200E-002	4.73050E-001	6.38790E-001	8.40000E-004	3.31500E-002	3.31500E-002	0.00000E+000	7.59064E+001	7.59064E+001	2.40200E-002	0.00000E+000	7.65068E+001
Tractors/Loaders/Balckhoes	1.17670E-001	2.68679E+000	3.62815E+000	4.81000E-003	1.88270E-001	1.88270E-001	0.00000E+000	4.32201E+002	4.32201E+002	1.36740E-001	0.00000E+000	4.35620E+002
Welders	3.04300E-001	4.85826E+000	4.30213E+000	7.35000E-003	2.93800E-001	2.93800E-001	0.00000E+000	5.40969E+002	5.40969E+002	9.04300E-002	0.00000E+000	5.43230E+002

[illegible]

Off-Highway Trucks	5.44571E-001	1.30602E-001	-7.52656E-001	0.00000E+000	9.31936E-002	1.43213E-002	0.00000E+000	1.18835E-006	1.18835E-006	0.00000E+000	0.00000E+000	1.19015E-006
Other Construction Equipment	7.08688E-001	4.76673E-001	-1.36294E-001	0.00000E+000	5.20307E-001	4.78520E-001	0.00000E+000	1.17600E-006	1.17600E-006	0.00000E+000	0.00000E+000	1.36123E-006
Other General Industrial Equipment	7.59783E-001	3.90669E-001	3.17383E-002	0.00000E+000	4.39992E-001	3.91204E-001	0.00000E+000	1.21247E-006	1.21247E-006	0.00000E+000	0.00000E+000	1.20296E-006
Other Material Handling Equipment	5.70843E-001	1.63572E-001	-1.61628E-001	0.00000E+000	1.93049E-001	1.22985E-001	0.00000E+000	1.20893E-006	1.20893E-006	0.00000E+000	0.00000E+000	1.19944E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	5.27593E-001	1.38299E-001	-2.28874E-001	0.00000E+000	1.61290E-001	8.86598E-002	0.00000E+000	1.16096E-006	1.16096E-006	0.00000E+000	0.00000E+000	1.34383E-006
Pumps	7.20316E-001	2.16478E-001	-7.27764E-002	0.00000E+000	1.15109E-001	1.15109E-001	0.00000E+000	1.18942E-006	1.18942E-006	0.00000E+000	0.00000E+000	1.18743E-006
Rollers	7.16008E-001	3.44417E-001	-4.01314E-002	0.00000E+000	3.01293E-001	2.40570E-001	0.00000E+000	1.27664E-006	1.27664E-006	0.00000E+000	0.00000E+000	1.26662E-006
Rough Terrain Forklifts	4.05696E-001	-4.49324E-002	-1.35502E-001	0.00000E+000	-6.43718E-001	-7.86382E-001	0.00000E+000	1.19228E-006	1.19228E-006	0.00000E+000	0.00000E+000	1.18292E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Loaders	6.12107E-001	3.80427E-001	-9.96185E-001	0.00000E+000	2.99138E-001	2.38221E-001	0.00000E+000	1.24190E-006	1.24190E-006	0.00000E+000	0.00000E+000	1.15515E-006
Sweepers/Scrubbers	7.81619E-001	4.25882E-001	3.79669E-002	0.00000E+000	5.04188E-001	4.61063E-001	0.00000E+000	1.18567E-006	1.18567E-006	0.00000E+000	0.00000E+000	1.17636E-006
Tractors/Loaders/Balkhoes	6.73728E-001	2.57971E-001	-1.71033E-002	0.00000E+000	2.21156E-001	1.53424E-001	0.00000E+000	1.18000E-006	1.18000E-006	0.00000E+000	0.00000E+000	1.17074E-006
Welders	7.25115E-001	-4.06826E-002	1.71718E-001	0.00000E+000	-2.56231E-002	-2.56231E-002	0.00000E+000	1.18306E-006	1.18306E-006	0.00000E+000	0.00000E+000	1.17814E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	55.00	PM2.5 Reduction	55.00	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.50	Vehicle Speed (mph)	40.00	

Yes	Clean Paved Road	% PM Reduction	0.00				
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Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Augur Bore 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Augur Bore 1	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Augur Bore 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Augur Bore 2	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Civil Work 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Civil Work 1	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Civil Work 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Civil Work 2	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Demobilize 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demobilize 1	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grind and Cap	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Grind and Cap	Roads	0.31	0.04	0.15	0.02	0.51	0.45
HDD	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
HDD	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Mobilize	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Mobilize	Roads	0.02	0.01	0.02	0.01	0.00	0.00
Site Preparation	Fugitive Dust	0.01	0.00	0.00	0.00	0.55	0.55
Site Preparation	Roads	8.70	1.05	4.45	0.62	0.49	0.41
Worker Trips	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	Roads	1.13	0.30	1.13	0.30	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Urban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.00	0.15		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	7.70			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00			2.00
No	Commute	Provide Ride Sharing Program	15.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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