



**Appendix C**  
**Air Quality Data:**  
**CalEEMod Input and**  
**Output Files / GHG**  
**Emission Calculations**

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## Ocean Ranch Substation Project San Diego County, Annual

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	0.00	User Defined Unit	7.49	0.00	0
Other Asphalt Surfaces	0.00	Acre	6.29	0.00	0
Other Non-Asphalt Surfaces	0.00	Acre	16.50	0.00	0

#### 1.2 Other Project Characteristics

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

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

Project Characteristics -

Land Use - User Defined Industrial = 7.49 acres for substation. Other asphalt surfaces= 0.92 ac of 69kv loop-in, 3.20 ac of 12kv distribution, and 2.17 roads/driveways. Other non-asphalt surfaces = 16.5 acres of unpaved staging areas.

Construction Phase - Project phases and schedule based on PEA, Section 3.0 Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

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Off-road Equipment - Construction equipment information take from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description. No off-road equipment will be used during this phase.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	0	19602
tblConstructionPhase	NumDays	500.00	51.00
tblConstructionPhase	NumDays	500.00	155.00
tblConstructionPhase	NumDays	45.00	120.00
tblConstructionPhase	NumDays	35.00	52.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	27.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
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tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
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tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	4/25/2018	2/28/2018
tblConstructionPhase	PhaseEndDate	5/28/2019	2/28/2019
tblConstructionPhase	PhaseEndDate	5/29/2019	3/30/2019
tblConstructionPhase	PhaseEndDate	6/27/2019	4/30/2019
tblConstructionPhase	PhaseStartDate	2/25/2018	1/1/2018
tblConstructionPhase	PhaseStartDate	5/1/2019	2/1/2019
tblConstructionPhase	PhaseStartDate	3/1/2019	1/1/2019
tblConstructionPhase	PhaseStartDate	3/31/2019	2/1/2019
tblGrading	AcresOfGrading	390.00	9.66
tblGrading	AcresOfGrading	0.00	5.50
tblGrading	AcresOfGrading	0.00	5.50
tblLandUse	LotAcreage	0.00	7.49
tblLandUse	LotAcreage	0.00	6.29
tblLandUse	LotAcreage	0.00	16.50
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		69 kV Underground Power Line-Duct Bank and Vault Installation
tblOffRoadEquipment	PhaseName		69 kV Underground Power Line-Duct Bank and Vault Installation
tblOffRoadEquipment	PhaseName		69 kV Underground Power Line-Duct Bank and Vault Installation
tblOffRoadEquipment	PhaseName		69 kV Underground Power Line-Duct Bank and Vault Installation
tblOffRoadEquipment	PhaseName		69 kV Underground Power Line-Duct Bank and Vault Installation

tblOffRoadEquipment	PhaseName			69 kV Underground Power Line-Duct Bank and Vault Installation
tblOffRoadEquipment	PhaseName			69 kV Underground Power Line-Duct Bank and Vault Installation
tblOffRoadEquipment	PhaseName			69 kV Underground Power Line-Duct Bank and Vault Installation
tblOffRoadEquipment	UsageHours		7.00	0.00
tblOffRoadEquipment	UsageHours		7.00	6.00
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tblOffRoadEquipment	UsageHours		8.00	2.00
tblOffRoadEquipment	UsageHours		8.00	0.00
tblOffRoadEquipment	UsageHours		8.00	0.00
tblOffRoadEquipment	UsageHours		8.00	24.00
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tblOffRoadEquipment	UsageHours		8.00	6.00
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tblOffRoadEquipment	UsageHours		8.00	6.00
tblOffRoadEquipment	UsageHours		8.00	6.00
tblOffRoadEquipment	UsageHours		8.00	0.00
tblOffRoadEquipment	UsageHours		8.00	0.00
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tblOffRoadEquipment	UsageHours		8.00	0.00

tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	0.00	123.00
tblTripsAndVMT	HaulingTripNumber	0.00	123.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,425.00
tblTripsAndVMT	HaulingTripNumber	0.00	249.00
tblTripsAndVMT	HaulingTripNumber	0.00	436.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	15.00
tblTripsAndVMT	WorkerTripNumber	20.00	15.00
tblTripsAndVMT	WorkerTripNumber	0.00	18.00
tblTripsAndVMT	WorkerTripNumber	5.00	18.00
tblTripsAndVMT	WorkerTripNumber	35.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	0.00	5.00

## 2.0 Emissions Summary

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## 2.1 Overall Construction

### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3302	3.7629	2.6537	3.7700e-003	0.8515	0.1670	1.0186	0.4559	0.1537	0.6097	0.0000	346.0196	346.0196	0.0839	0.0000	347.7818
2018	0.4817	5.0314	3.6940	6.1000e-003	0.8500	0.2552	1.1052	0.4559	0.2381	0.6940	0.0000	546.3476	546.3476	0.1325	0.0000	549.1297
2019	0.1672	1.5214	1.3729	2.5500e-003	0.0297	0.0824	0.1121	7.5000e-003	0.0778	0.0853	0.0000	219.5163	219.5163	0.0420	0.0000	220.3991
<b>Total</b>	<b>0.9790</b>	<b>10.3157</b>	<b>7.7205</b>	<b>0.0124</b>	<b>1.7312</b>	<b>0.5046</b>	<b>2.2358</b>	<b>0.9193</b>	<b>0.4696</b>	<b>1.3889</b>	<b>0.0000</b>	<b>1,111.8834</b>	<b>1,111.8834</b>	<b>0.2584</b>	<b>0.0000</b>	<b>1,117.3106</b>

### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3302	3.7629	2.6537	3.7700e-003	0.8515	0.1670	1.0186	0.4559	0.1537	0.6097	0.0000	346.0193	346.0193	0.0839	0.0000	347.7815
2018	0.4817	5.0314	3.6940	6.1000e-003	0.8500	0.2552	1.1052	0.4559	0.2381	0.6940	0.0000	546.3470	546.3470	0.1325	0.0000	549.1291
2019	0.1672	1.5214	1.3729	2.5500e-003	0.0297	0.0824	0.1121	7.5000e-003	0.0778	0.0853	0.0000	219.5161	219.5161	0.0420	0.0000	220.3989
<b>Total</b>	<b>0.9790</b>	<b>10.3157</b>	<b>7.7205</b>	<b>0.0124</b>	<b>1.7312</b>	<b>0.5046</b>	<b>2.2358</b>	<b>0.9193</b>	<b>0.4696</b>	<b>1.3889</b>	<b>0.0000</b>	<b>1,111.8823</b>	<b>1,111.8823</b>	<b>0.2584</b>	<b>0.0000</b>	<b>1,117.3095</b>



## 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	0.0114	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0114</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Temporary Staging Yard-Preparation	Site Preparation	10/1/2017	10/7/2017	6	6	1 week duration
2	69/12 kV Substation-Site Development and Grading	Grading	10/8/2017	2/24/2018	6	120	5 month duration
3	69/12 kV Substation-Retaining/Boundary Walls	Building Construction	1/1/2018	2/28/2018	6	51	2 month duration
4	69/12 kV Substation-Below Grade	Trenching	3/1/2018	8/31/2018	6	158	6 month duration
5	69/12 kV Substation-Equipment Installation	Building Construction	9/1/2018	2/28/2019	6	155	6 month duration
6	69 kV Underground Power Line-Duct Bank and Vault Installation	Trenching	1/1/2019	3/30/2019	6	77	3 month duration
7	12 kV Distribution-Trench and Conductor Installation	Trenching	2/1/2019	4/30/2019	6	76	3 month duration
8	Telecom-Duct Bank, Vault and Cable Installation	Trenching	2/1/2019	2/28/2019	6	24	1 month duration
9	69/12 kV Substation-Driveways/Sidewalks	Paving	3/1/2019	4/30/2019	6	52	2 month duration
10	Energizing-Testing and Commissioning	Site Preparation	5/1/2019	5/31/2019	6	27	1 month duration
11	Temporary Staging Yard-Cleanup	Site Preparation	6/1/2019	6/7/2019	6	6	1 week duration

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

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

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Temporary Staging Yard-Preparation	Dumpers/Tenders	3	6.00	16	0.38
Temporary Staging Yard-Preparation	Rubber Tired Dozers	0	0.00	255	0.40
Temporary Staging Yard-Preparation	Rubber Tired Loaders	1	6.00	199	0.36
Temporary Staging Yard-Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37

69/12 kV Substation-Site Development and Grading	Excavators	1	6.00	162	0.38
69/12 kV Substation-Site Development and Grading	Graders	1	6.00	174	0.41
69/12 kV Substation-Site Development and Grading	Plate Compactors	1	7.00	8	0.43
69/12 kV Substation-Site Development and Grading	Rubber Tired Dozers	3	6.00	255	0.40
69/12 kV Substation-Site Development and Grading	Scrapers	2	8.00	361	0.48
69/12 kV Substation-Site Development and Grading	Scrapers	1	7.00	361	0.48
69/12 kV Substation-Site Development and Grading	Skid Steer Loaders	1	4.00	64	0.37
69/12 kV Substation-Site Development and Grading	Skid Steer Loaders	1	3.00	64	0.37
69/12 kV Substation-Site Development and Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
69/12 kV Substation-Site Development and Grading	Trenchers	1	6.00	80	0.50
69/12 kV Substation-Retaining/Boundary Walls	Cranes	0	0.00	226	0.29
69/12 kV Substation-Retaining/Boundary Walls	Excavators	1	9.00	162	0.38
69/12 kV Substation-Retaining/Boundary Walls	Forklifts	1	2.00	89	0.20
69/12 kV Substation-Retaining/Boundary Walls	Generator Sets	0	0.00	84	0.74
69/12 kV Substation-Retaining/Boundary Walls	Graders	1	8.00	174	0.41
69/12 kV Substation-Retaining/Boundary Walls	Plate Compactors	2	8.00	8	0.43
69/12 kV Substation-Retaining/Boundary Walls	Skid Steer Loaders	1	6.00	64	0.37
69/12 kV Substation-Retaining/Boundary Walls	Tractors/Loaders/Backhoes	2	7.00	97	0.37
69/12 kV Substation-Retaining/Boundary Walls	Tractors/Loaders/Backhoes	3	8.00	97	0.37
69/12 kV Substation-Retaining/Boundary Walls	Welders	0	0.00	46	0.45
69/12 kV Substation-Below Grade	Excavators	1	7.00	162	0.38
69/12 kV Substation-Below Grade	Rubber Tired Loaders	1	6.00	199	0.36
69/12 kV Substation-Below Grade	Skid Steer Loaders	1	4.00	64	0.37

69/12 kV Substation-Below Grade	Tractors/Loaders/Backhoes	1	7.00	97	0.37
69/12 kV Substation-Below Grade	Trenchers	1	6.00	80	0.50
69/12 kV Substation-Equipment Installation	Aerial Lifts	1	6.00	62	0.31
69/12 kV Substation-Equipment Installation	Cranes	2	6.00	226	0.29
69/12 kV Substation-Equipment Installation	Forklifts	0	0.00	89	0.20
69/12 kV Substation-Equipment Installation	Generator Sets	1	24.00	84	0.74
69/12 kV Substation-Equipment Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
69/12 kV Substation-Equipment Installation	Welders	0	0.00	46	0.45
69 kV Underground Power Line-Duct Bank and Vault Installation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
69 kV Underground Power Line-Duct Bank and Vault Installation	Dumpers/Tenders	2	3.00	16	0.38
69 kV Underground Power Line-Duct Bank and Vault Installation	Other General Industrial Equipment	1	1.00	87	0.34
69 kV Underground Power Line-Duct Bank and Vault Installation	Air Compressors	1	7.00	78	0.48
69 kV Underground Power Line-Duct Bank and Vault Installation	Bore/Drill Rigs	0		205	0.50
69 kV Underground Power Line-Duct Bank and Vault Installation	Forklifts	0	0.00	89	0.20
69 kV Underground Power Line-Duct Bank and Vault Installation	Graders	0	0.00	174	0.41
69 kV Underground Power Line-Duct Bank and Vault Installation	Other General Industrial Equipment	0	0.00	87	0.34
12 kV Distribution-Trench and Conductor Installation	Concrete/Industrial Saws	1	1.00	81	0.73
12 kV Distribution-Trench and Conductor Installation	Cranes	1	1.00	226	0.29
12 kV Distribution-Trench and Conductor Installation	Dumpers/Tenders	1	1.00	16	0.38
12 kV Distribution-Trench and Conductor Installation	Excavators	1	1.00	162	0.38
12 kV Distribution-Trench and Conductor Installation	Forklifts	1	1.00	89	0.20
12 kV Distribution-Trench and Conductor Installation	Other General Industrial Equipment	1	1.00	87	0.34
12 kV Distribution-Trench and Conductor Installation	Pavers	1	1.00	125	0.42

12 kV Distribution-Trench and Conductor Installation	Rollers	1	1.00	80	0.38
12 kV Distribution-Trench and Conductor Installation	Skid Steer Loaders	1	6.00	64	0.37
12 kV Distribution-Trench and Conductor Installation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Telecom-Duct Bank, Vault and Cable Installation	Skid Steer Loaders	1	7.00	64	0.37
Telecom-Duct Bank, Vault and Cable Installation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
69/12 kV Substation-Driveways/Sidewalks	Pavers	1	6.00	125	0.42
69/12 kV Substation-Driveways/Sidewalks	Paving Equipment	0	0.00	130	0.36
69/12 kV Substation-Driveways/Sidewalks	Rollers	2	6.00	80	0.38
69/12 kV Substation-Driveways/Sidewalks	Rubber Tired Loaders	1	5.00	199	0.36
69/12 kV Substation-Driveways/Sidewalks	Skid Steer Loaders	1	5.00	64	0.37
69/12 kV Substation-Driveways/Sidewalks	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Energizing-Testing and Commissioning	Rubber Tired Dozers	0	0.00	255	0.40
Energizing-Testing and Commissioning	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Temporary Staging Yard-Cleanup	Dumpers/Tenders	1	2.00	16	0.38
Temporary Staging Yard-Cleanup	Rubber Tired Dozers	0	0.00	255	0.40
Temporary Staging Yard-Cleanup	Tractors/Loaders/Backhoes	1	7.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Temporary Staging Yard-Preparation	5	15.00	0.00	123.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Site Development and	14	20.00	20.00	2,425.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Retaining/Roundup/W	11	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Below Grade	5	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Equipment Installation	4	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69 kV Underground Power Line-Duct Bank	5	13.00	0.00	249.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
12 kV Distribution-Trench and Conductor	11	28.00	0.00	436.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Telecom-Duct Bank, Vault and Cable Install	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Driveways/Sidewalks	8	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Energizing-Testing and Commissioning	0	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Temporary Staging Yard-Cleanup	2	18.00	0.00	123.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Temporary Staging Yard-Preparation - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9200e-003	0.0000	2.9200e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2700e-003	0.0235	0.0111	3.0000e-005		1.1000e-003	1.1000e-003		1.0200e-003	1.0200e-003	0.0000	2.3019	2.3019	6.3000e-004	0.0000	2.3151
<b>Total</b>	<b>2.2700e-003</b>	<b>0.0235</b>	<b>0.0111</b>	<b>3.0000e-005</b>	<b>2.9200e-003</b>	<b>1.1000e-003</b>	<b>4.0200e-003</b>	<b>3.1000e-004</b>	<b>1.0200e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>2.3019</b>	<b>2.3019</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>2.3151</b>



### 3.2 Temporary Staging Yard-Preparation - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-003	0.0159	0.0141	5.0000e-005	1.0500e-003	2.1000e-004	1.2600e-003	2.9000e-004	1.9000e-004	4.8000e-004	0.0000	4.1292	4.1292	3.0000e-005	0.0000	4.1298
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.9000e-004	1.7500e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3233	0.3233	2.0000e-005	0.0000	0.3236
<b>Total</b>	<b>1.3400e-003</b>	<b>0.0161</b>	<b>0.0158</b>	<b>5.0000e-005</b>	<b>1.4100e-003</b>	<b>2.1000e-004</b>	<b>1.6200e-003</b>	<b>3.9000e-004</b>	<b>1.9000e-004</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>4.4525</b>	<b>4.4525</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>4.4535</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9200e-003	0.0000	2.9200e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2700e-003	0.0235	0.0111	3.0000e-005		1.1000e-003	1.1000e-003		1.0200e-003	1.0200e-003	0.0000	2.3019	2.3019	6.3000e-004	0.0000	2.3151
<b>Total</b>	<b>2.2700e-003</b>	<b>0.0235</b>	<b>0.0111</b>	<b>3.0000e-005</b>	<b>2.9200e-003</b>	<b>1.1000e-003</b>	<b>4.0200e-003</b>	<b>3.1000e-004</b>	<b>1.0200e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>2.3019</b>	<b>2.3019</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>2.3151</b>

### 3.2 Temporary Staging Yard-Preparation - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-003	0.0159	0.0141	5.0000e-005	1.0500e-003	2.1000e-004	1.2600e-003	2.9000e-004	1.9000e-004	4.8000e-004	0.0000	4.1292	4.1292	3.0000e-005	0.0000	4.1298
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.9000e-004	1.7500e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3233	0.3233	2.0000e-005	0.0000	0.3236
<b>Total</b>	<b>1.3400e-003</b>	<b>0.0161</b>	<b>0.0158</b>	<b>5.0000e-005</b>	<b>1.4100e-003</b>	<b>2.1000e-004</b>	<b>1.6200e-003</b>	<b>3.9000e-004</b>	<b>1.9000e-004</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>4.4525</b>	<b>4.4525</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>4.4535</b>

### 3.3 69/12 kV Substation-Site Development and Grading - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8181	0.0000	0.8181	0.4474	0.0000	0.4474	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3026	3.4691	2.3389	2.9100e-003		0.1623	0.1623		0.1494	0.1494	0.0000	269.9756	269.9756	0.0825	0.0000	271.7086
<b>Total</b>	<b>0.3026</b>	<b>3.4691</b>	<b>2.3389</b>	<b>2.9100e-003</b>	<b>0.8181</b>	<b>0.1623</b>	<b>0.9804</b>	<b>0.4474</b>	<b>0.1494</b>	<b>0.5968</b>	<b>0.0000</b>	<b>269.9756</b>	<b>269.9756</b>	<b>0.0825</b>	<b>0.0000</b>	<b>271.7086</b>

### 3.3 69/12 kV Substation-Site Development and Grading - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0142	0.1884	0.1667	5.4000e-004	0.0187	2.4500e-003	0.0211	4.9400e-003	2.2500e-003	7.1900e-003	0.0000	48.8456	48.8456	3.4000e-004	0.0000	48.8528
Vendor	7.5000e-003	0.0629	0.0931	1.7000e-004	4.6800e-003	9.0000e-004	5.5800e-003	1.3400e-003	8.3000e-004	2.1700e-003	0.0000	15.2712	15.2712	1.2000e-004	0.0000	15.2736
Worker	2.2400e-003	2.9600e-003	0.0280	7.0000e-005	5.7700e-003	4.0000e-005	5.8200e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	5.1727	5.1727	2.6000e-004	0.0000	5.1783
<b>Total</b>	<b>0.0240</b>	<b>0.2542</b>	<b>0.2879</b>	<b>7.8000e-004</b>	<b>0.0291</b>	<b>3.3900e-003</b>	<b>0.0325</b>	<b>7.8100e-003</b>	<b>3.1200e-003</b>	<b>0.0109</b>	<b>0.0000</b>	<b>69.2896</b>	<b>69.2896</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>69.3046</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8181	0.0000	0.8181	0.4474	0.0000	0.4474	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3026	3.4691	2.3389	2.9100e-003		0.1623	0.1623		0.1494	0.1494	0.0000	269.9753	269.9753	0.0825	0.0000	271.7082
<b>Total</b>	<b>0.3026</b>	<b>3.4691</b>	<b>2.3389</b>	<b>2.9100e-003</b>	<b>0.8181</b>	<b>0.1623</b>	<b>0.9804</b>	<b>0.4474</b>	<b>0.1494</b>	<b>0.5968</b>	<b>0.0000</b>	<b>269.9753</b>	<b>269.9753</b>	<b>0.0825</b>	<b>0.0000</b>	<b>271.7082</b>

### 3.3 69/12 kV Substation-Site Development and Grading - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0142	0.1884	0.1667	5.4000e-004	0.0187	2.4500e-003	0.0211	4.9400e-003	2.2500e-003	7.1900e-003	0.0000	48.8456	48.8456	3.4000e-004	0.0000	48.8528
Vendor	7.5000e-003	0.0629	0.0931	1.7000e-004	4.6800e-003	9.0000e-004	5.5800e-003	1.3400e-003	8.3000e-004	2.1700e-003	0.0000	15.2712	15.2712	1.2000e-004	0.0000	15.2736
Worker	2.2400e-003	2.9600e-003	0.0280	7.0000e-005	5.7700e-003	4.0000e-005	5.8200e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	5.1727	5.1727	2.6000e-004	0.0000	5.1783
<b>Total</b>	<b>0.0240</b>	<b>0.2542</b>	<b>0.2879</b>	<b>7.8000e-004</b>	<b>0.0291</b>	<b>3.3900e-003</b>	<b>0.0325</b>	<b>7.8100e-003</b>	<b>3.1200e-003</b>	<b>0.0109</b>	<b>0.0000</b>	<b>69.2896</b>	<b>69.2896</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>69.3046</b>

### 3.3 69/12 kV Substation-Site Development and Grading - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8181	0.0000	0.8181	0.4474	0.0000	0.4474	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1769	2.0017	1.3911	1.9400e-003		0.0922	0.0922		0.0848	0.0848	0.0000	177.1667	177.1667	0.0550	0.0000	178.3221
<b>Total</b>	<b>0.1769</b>	<b>2.0017</b>	<b>1.3911</b>	<b>1.9400e-003</b>	<b>0.8181</b>	<b>0.0922</b>	<b>0.9103</b>	<b>0.4474</b>	<b>0.0848</b>	<b>0.5322</b>	<b>0.0000</b>	<b>177.1667</b>	<b>177.1667</b>	<b>0.0550</b>	<b>0.0000</b>	<b>178.3221</b>

### 3.3 69/12 kV Substation-Site Development and Grading - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.1900e-003	0.1133	0.1082	3.6000e-004	0.0176	1.6100e-003	0.0192	4.5700e-003	1.4800e-003	6.0500e-003	0.0000	32.0058	32.0058	2.3000e-004	0.0000	32.0105
Vendor	4.6900e-003	0.0379	0.0593	1.1000e-004	3.1200e-003	5.6000e-004	3.6800e-003	8.9000e-004	5.1000e-004	1.4100e-003	0.0000	10.0059	10.0059	8.0000e-005	0.0000	10.0075
Worker	1.3600e-003	1.8000e-003	0.0169	5.0000e-005	3.8500e-003	3.0000e-005	3.8800e-003	1.0200e-003	3.0000e-005	1.0500e-003	0.0000	3.3190	3.3190	1.6000e-004	0.0000	3.3224
<b>Total</b>	<b>0.0152</b>	<b>0.1530</b>	<b>0.1844</b>	<b>5.2000e-004</b>	<b>0.0246</b>	<b>2.2000e-003</b>	<b>0.0268</b>	<b>6.4800e-003</b>	<b>2.0200e-003</b>	<b>8.5100e-003</b>	<b>0.0000</b>	<b>45.3307</b>	<b>45.3307</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>45.3404</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8181	0.0000	0.8181	0.4474	0.0000	0.4474	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1769	2.0017	1.3911	1.9400e-003		0.0922	0.0922		0.0848	0.0848	0.0000	177.1665	177.1665	0.0550	0.0000	178.3219
<b>Total</b>	<b>0.1769</b>	<b>2.0017</b>	<b>1.3911</b>	<b>1.9400e-003</b>	<b>0.8181</b>	<b>0.0922</b>	<b>0.9103</b>	<b>0.4474</b>	<b>0.0848</b>	<b>0.5322</b>	<b>0.0000</b>	<b>177.1665</b>	<b>177.1665</b>	<b>0.0550</b>	<b>0.0000</b>	<b>178.3219</b>

### 3.3 69/12 kV Substation-Site Development and Grading - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.1900e-003	0.1133	0.1082	3.6000e-004	0.0176	1.6100e-003	0.0192	4.5700e-003	1.4800e-003	6.0500e-003	0.0000	32.0058	32.0058	2.3000e-004	0.0000	32.0105
Vendor	4.6900e-003	0.0379	0.0593	1.1000e-004	3.1200e-003	5.6000e-004	3.6800e-003	8.9000e-004	5.1000e-004	1.4100e-003	0.0000	10.0059	10.0059	8.0000e-005	0.0000	10.0075
Worker	1.3600e-003	1.8000e-003	0.0169	5.0000e-005	3.8500e-003	3.0000e-005	3.8800e-003	1.0200e-003	3.0000e-005	1.0500e-003	0.0000	3.3190	3.3190	1.6000e-004	0.0000	3.3224
<b>Total</b>	<b>0.0152</b>	<b>0.1530</b>	<b>0.1844</b>	<b>5.2000e-004</b>	<b>0.0246</b>	<b>2.2000e-003</b>	<b>0.0268</b>	<b>6.4800e-003</b>	<b>2.0200e-003</b>	<b>8.5100e-003</b>	<b>0.0000</b>	<b>45.3307</b>	<b>45.3307</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>45.3404</b>

### 3.4 69/12 kV Substation-Retaining/Boundary Walls - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0669	0.6672	0.5431	7.6000e-004		0.0413	0.0413		0.0381	0.0381	0.0000	68.7461	68.7461	0.0211	0.0000	69.1885
<b>Total</b>	<b>0.0669</b>	<b>0.6672</b>	<b>0.5431</b>	<b>7.6000e-004</b>		<b>0.0413</b>	<b>0.0413</b>		<b>0.0381</b>	<b>0.0381</b>	<b>0.0000</b>	<b>68.7461</b>	<b>68.7461</b>	<b>0.0211</b>	<b>0.0000</b>	<b>69.1885</b>

### 3.4 69/12 kV Substation-Retaining/Boundary Walls - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-004	4.0200e-003	6.3000e-003	1.0000e-005	3.3000e-004	6.0000e-005	3.9000e-004	9.0000e-005	5.0000e-005	1.5000e-004	0.0000	1.0631	1.0631	1.0000e-005	0.0000	1.0633
Worker	3.6000e-004	4.8000e-004	4.4900e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.8816	0.8816	4.0000e-005	0.0000	0.8825
<b>Total</b>	<b>8.6000e-004</b>	<b>4.5000e-003</b>	<b>0.0108</b>	<b>2.0000e-005</b>	<b>1.3500e-003</b>	<b>7.0000e-005</b>	<b>1.4200e-003</b>	<b>3.6000e-004</b>	<b>6.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.9447</b>	<b>1.9447</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.9458</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0669	0.6672	0.5431	7.6000e-004		0.0413	0.0413		0.0381	0.0381	0.0000	68.7460	68.7460	0.0211	0.0000	69.1885
<b>Total</b>	<b>0.0669</b>	<b>0.6672</b>	<b>0.5431</b>	<b>7.6000e-004</b>		<b>0.0413</b>	<b>0.0413</b>		<b>0.0381</b>	<b>0.0381</b>	<b>0.0000</b>	<b>68.7460</b>	<b>68.7460</b>	<b>0.0211</b>	<b>0.0000</b>	<b>69.1885</b>

### 3.4 69/12 kV Substation-Retaining/Boundary Walls - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-004	4.0200e-003	6.3000e-003	1.0000e-005	3.3000e-004	6.0000e-005	3.9000e-004	9.0000e-005	5.0000e-005	1.5000e-004	0.0000	1.0631	1.0631	1.0000e-005	0.0000	1.0633
Worker	3.6000e-004	4.8000e-004	4.4900e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.8816	0.8816	4.0000e-005	0.0000	0.8825
<b>Total</b>	<b>8.6000e-004</b>	<b>4.5000e-003</b>	<b>0.0108</b>	<b>2.0000e-005</b>	<b>1.3500e-003</b>	<b>7.0000e-005</b>	<b>1.4200e-003</b>	<b>3.6000e-004</b>	<b>6.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.9447</b>	<b>1.9447</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.9458</b>

### 3.5 69/12 kV Substation-Below Grade - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0949	1.0049	0.7098	1.2300e-003		0.0551	0.0551		0.0507	0.0507	0.0000	112.2136	112.2136	0.0349	0.0000	112.9472
<b>Total</b>	<b>0.0949</b>	<b>1.0049</b>	<b>0.7098</b>	<b>1.2300e-003</b>		<b>0.0551</b>	<b>0.0551</b>		<b>0.0507</b>	<b>0.0507</b>	<b>0.0000</b>	<b>112.2136</b>	<b>112.2136</b>	<b>0.0349</b>	<b>0.0000</b>	<b>112.9472</b>



**3.5 69/12 kV Substation-Below Grade - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1200e-003	1.4800e-003	0.0139	4.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	2.0000e-005	8.6000e-004	0.0000	2.7313	2.7313	1.3000e-004	0.0000	2.7341
<b>Total</b>	<b>1.1200e-003</b>	<b>1.4800e-003</b>	<b>0.0139</b>	<b>4.0000e-005</b>	<b>3.1700e-003</b>	<b>2.0000e-005</b>	<b>3.1900e-003</b>	<b>8.4000e-004</b>	<b>2.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>2.7313</b>	<b>2.7313</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.7341</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0949	1.0049	0.7098	1.2300e-003		0.0551	0.0551		0.0507	0.0507	0.0000	112.2134	112.2134	0.0349	0.0000	112.9470
<b>Total</b>	<b>0.0949</b>	<b>1.0049</b>	<b>0.7098</b>	<b>1.2300e-003</b>		<b>0.0551</b>	<b>0.0551</b>		<b>0.0507</b>	<b>0.0507</b>	<b>0.0000</b>	<b>112.2134</b>	<b>112.2134</b>	<b>0.0349</b>	<b>0.0000</b>	<b>112.9470</b>

**3.5 69/12 kV Substation-Below Grade - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1200e-003	1.4800e-003	0.0139	4.0000e-005	3.1700e-003	2.0000e-005	3.1900e-003	8.4000e-004	2.0000e-005	8.6000e-004	0.0000	2.7313	2.7313	1.3000e-004	0.0000	2.7341
<b>Total</b>	<b>1.1200e-003</b>	<b>1.4800e-003</b>	<b>0.0139</b>	<b>4.0000e-005</b>	<b>3.1700e-003</b>	<b>2.0000e-005</b>	<b>3.1900e-003</b>	<b>8.4000e-004</b>	<b>2.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>2.7313</b>	<b>2.7313</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.7341</b>

**3.6 69/12 kV Substation-Equipment Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1240	1.1895	0.8189	1.5300e-003		0.0642	0.0642		0.0623	0.0623	0.0000	134.2489	134.2489	0.0207	0.0000	134.6837
<b>Total</b>	<b>0.1240</b>	<b>1.1895</b>	<b>0.8189</b>	<b>1.5300e-003</b>		<b>0.0642</b>	<b>0.0642</b>		<b>0.0623</b>	<b>0.0623</b>	<b>0.0000</b>	<b>134.2489</b>	<b>134.2489</b>	<b>0.0207</b>	<b>0.0000</b>	<b>134.6837</b>

### 3.6 69/12 kV Substation-Equipment Installation - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0200e-003	8.2000e-003	0.0129	2.0000e-005	6.8000e-004	1.2000e-004	8.0000e-004	1.9000e-004	1.1000e-004	3.0000e-004	0.0000	2.1679	2.1679	2.0000e-005	0.0000	2.1683
Worker	7.3000e-004	9.8000e-004	9.1600e-003	3.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.7978	1.7978	9.0000e-005	0.0000	1.7997
<b>Total</b>	<b>1.7500e-003</b>	<b>9.1800e-003</b>	<b>0.0220</b>	<b>5.0000e-005</b>	<b>2.7600e-003</b>	<b>1.4000e-004</b>	<b>2.9000e-003</b>	<b>7.4000e-004</b>	<b>1.2000e-004</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>3.9657</b>	<b>3.9657</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.9679</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1240	1.1895	0.8189	1.5300e-003		0.0642	0.0642		0.0623	0.0623	0.0000	134.2487	134.2487	0.0207	0.0000	134.6835
<b>Total</b>	<b>0.1240</b>	<b>1.1895</b>	<b>0.8189</b>	<b>1.5300e-003</b>		<b>0.0642</b>	<b>0.0642</b>		<b>0.0623</b>	<b>0.0623</b>	<b>0.0000</b>	<b>134.2487</b>	<b>134.2487</b>	<b>0.0207</b>	<b>0.0000</b>	<b>134.6835</b>

### 3.6 69/12 kV Substation-Equipment Installation - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0200e-003	8.2000e-003	0.0129	2.0000e-005	6.8000e-004	1.2000e-004	8.0000e-004	1.9000e-004	1.1000e-004	3.0000e-004	0.0000	2.1679	2.1679	2.0000e-005	0.0000	2.1683
Worker	7.3000e-004	9.8000e-004	9.1600e-003	3.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.7978	1.7978	9.0000e-005	0.0000	1.7997
<b>Total</b>	<b>1.7500e-003</b>	<b>9.1800e-003</b>	<b>0.0220</b>	<b>5.0000e-005</b>	<b>2.7600e-003</b>	<b>1.4000e-004</b>	<b>2.9000e-003</b>	<b>7.4000e-004</b>	<b>1.2000e-004</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>3.9657</b>	<b>3.9657</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.9679</b>

### 3.6 69/12 kV Substation-Equipment Installation - 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	0.0536	0.5266	0.3912	7.5000e-004		0.0271	0.0271		0.0263	0.0263	0.0000	65.4686	65.4686	9.7700e-003	0.0000	65.6738
<b>Total</b>	<b>0.0536</b>	<b>0.5266</b>	<b>0.3912</b>	<b>7.5000e-004</b>		<b>0.0271</b>	<b>0.0271</b>		<b>0.0263</b>	<b>0.0263</b>	<b>0.0000</b>	<b>65.4686</b>	<b>65.4686</b>	<b>9.7700e-003</b>	<b>0.0000</b>	<b>65.6738</b>

**3.6 69/12 kV Substation-Equipment Installation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7000e-004	3.6600e-003	6.0200e-003	1.0000e-005	3.3000e-004	5.0000e-005	3.9000e-004	9.0000e-005	5.0000e-005	1.5000e-004	0.0000	1.0448	1.0448	1.0000e-005	0.0000	1.0450
Worker	3.3000e-004	4.4000e-004	4.1300e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.8497	0.8497	4.0000e-005	0.0000	0.8506
<b>Total</b>	<b>8.0000e-004</b>	<b>4.1000e-003</b>	<b>0.0102</b>	<b>2.0000e-005</b>	<b>1.3500e-003</b>	<b>6.0000e-005</b>	<b>1.4200e-003</b>	<b>3.6000e-004</b>	<b>6.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.8945</b>	<b>1.8945</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.8955</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0536	0.5266	0.3912	7.5000e-004		0.0271	0.0271		0.0263	0.0263	0.0000	65.4685	65.4685	9.7700e-003	0.0000	65.6738
<b>Total</b>	<b>0.0536</b>	<b>0.5266</b>	<b>0.3912</b>	<b>7.5000e-004</b>		<b>0.0271</b>	<b>0.0271</b>		<b>0.0263</b>	<b>0.0263</b>	<b>0.0000</b>	<b>65.4685</b>	<b>65.4685</b>	<b>9.7700e-003</b>	<b>0.0000</b>	<b>65.6738</b>

### 3.6 69/12 kV Substation-Equipment Installation - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7000e-004	3.6600e-003	6.0200e-003	1.0000e-005	3.3000e-004	5.0000e-005	3.9000e-004	9.0000e-005	5.0000e-005	1.5000e-004	0.0000	1.0448	1.0448	1.0000e-005	0.0000	1.0450
Worker	3.3000e-004	4.4000e-004	4.1300e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.8497	0.8497	4.0000e-005	0.0000	0.8506
<b>Total</b>	<b>8.0000e-004</b>	<b>4.1000e-003</b>	<b>0.0102</b>	<b>2.0000e-005</b>	<b>1.3500e-003</b>	<b>6.0000e-005</b>	<b>1.4200e-003</b>	<b>3.6000e-004</b>	<b>6.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.8945</b>	<b>1.8945</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.8955</b>

### 3.7 69 kV Underground Power Line-Duct Bank and Vault Installation - 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	0.0232	0.1859	0.1771	2.7000e-004		0.0124	0.0124		0.0119	0.0119	0.0000	23.5577	23.5577	4.4600e-003	0.0000	23.6514
<b>Total</b>	<b>0.0232</b>	<b>0.1859</b>	<b>0.1771</b>	<b>2.7000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0119</b>	<b>0.0119</b>	<b>0.0000</b>	<b>23.5577</b>	<b>23.5577</b>	<b>4.4600e-003</b>	<b>0.0000</b>	<b>23.6514</b>

**3.7 69 kV Underground Power Line-Duct Bank and Vault Installation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2600e-003	0.0266	0.0269	9.0000e-005	2.1200e-003	4.1000e-004	2.5300e-003	5.8000e-004	3.8000e-004	9.6000e-004	0.0000	8.0752	8.0752	6.0000e-005	0.0000	8.0764
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3100e-003	1.7400e-003	0.0162	5.0000e-005	4.0100e-003	3.0000e-005	4.0400e-003	1.0700e-003	3.0000e-005	1.0900e-003	0.0000	3.3356	3.3356	1.6000e-004	0.0000	3.3389
<b>Total</b>	<b>3.5700e-003</b>	<b>0.0283</b>	<b>0.0431</b>	<b>1.4000e-004</b>	<b>6.1300e-003</b>	<b>4.4000e-004</b>	<b>6.5700e-003</b>	<b>1.6500e-003</b>	<b>4.1000e-004</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>11.4108</b>	<b>11.4108</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>11.4153</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0232	0.1859	0.1771	2.7000e-004		0.0124	0.0124		0.0119	0.0119	0.0000	23.5577	23.5577	4.4600e-003	0.0000	23.6513
<b>Total</b>	<b>0.0232</b>	<b>0.1859</b>	<b>0.1771</b>	<b>2.7000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0119</b>	<b>0.0119</b>	<b>0.0000</b>	<b>23.5577</b>	<b>23.5577</b>	<b>4.4600e-003</b>	<b>0.0000</b>	<b>23.6513</b>

**3.7 69 kV Underground Power Line-Duct Bank and Vault Installation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2600e-003	0.0266	0.0269	9.0000e-005	2.1200e-003	4.1000e-004	2.5300e-003	5.8000e-004	3.8000e-004	9.6000e-004	0.0000	8.0752	8.0752	6.0000e-005	0.0000	8.0764
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3100e-003	1.7400e-003	0.0162	5.0000e-005	4.0100e-003	3.0000e-005	4.0400e-003	1.0700e-003	3.0000e-005	1.0900e-003	0.0000	3.3356	3.3356	1.6000e-004	0.0000	3.3389
<b>Total</b>	<b>3.5700e-003</b>	<b>0.0283</b>	<b>0.0431</b>	<b>1.4000e-004</b>	<b>6.1300e-003</b>	<b>4.4000e-004</b>	<b>6.5700e-003</b>	<b>1.6500e-003</b>	<b>4.1000e-004</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>11.4108</b>	<b>11.4108</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>11.4153</b>

**3.8 12 kV Distribution-Trench and Conductor Installation - 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	0.0284	0.2901	0.2749	4.0000e-004		0.0176	0.0176		0.0163	0.0163	0.0000	36.0249	36.0249	0.0107	0.0000	36.2499
<b>Total</b>	<b>0.0284</b>	<b>0.2901</b>	<b>0.2749</b>	<b>4.0000e-004</b>		<b>0.0176</b>	<b>0.0176</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>36.0249</b>	<b>36.0249</b>	<b>0.0107</b>	<b>0.0000</b>	<b>36.2499</b>



**3.8 12 kV Distribution-Trench and Conductor Installation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9600e-003	0.0466	0.0472	1.6000e-004	3.7200e-003	7.1000e-004	4.4300e-003	1.0200e-003	6.6000e-004	1.6800e-003	0.0000	14.1397	14.1397	1.0000e-004	0.0000	14.1419
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7900e-003	3.6900e-003	0.0345	1.0000e-004	8.5300e-003	6.0000e-005	8.5900e-003	2.2700e-003	6.0000e-005	2.3200e-003	0.0000	7.0910	7.0910	3.4000e-004	0.0000	7.0981
<b>Total</b>	<b>6.7500e-003</b>	<b>0.0503</b>	<b>0.0816</b>	<b>2.6000e-004</b>	<b>0.0123</b>	<b>7.7000e-004</b>	<b>0.0130</b>	<b>3.2900e-003</b>	<b>7.2000e-004</b>	<b>4.0000e-003</b>	<b>0.0000</b>	<b>21.2307</b>	<b>21.2307</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>21.2400</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0284	0.2901	0.2749	4.0000e-004		0.0176	0.0176		0.0163	0.0163	0.0000	36.0249	36.0249	0.0107	0.0000	36.2499
<b>Total</b>	<b>0.0284</b>	<b>0.2901</b>	<b>0.2749</b>	<b>4.0000e-004</b>		<b>0.0176</b>	<b>0.0176</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>36.0249</b>	<b>36.0249</b>	<b>0.0107</b>	<b>0.0000</b>	<b>36.2499</b>

### 3.8 12 kV Distribution-Trench and Conductor Installation - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9600e-003	0.0466	0.0472	1.6000e-004	3.7200e-003	7.1000e-004	4.4300e-003	1.0200e-003	6.6000e-004	1.6800e-003	0.0000	14.1397	14.1397	1.0000e-004	0.0000	14.1419
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7900e-003	3.6900e-003	0.0345	1.0000e-004	8.5300e-003	6.0000e-005	8.5900e-003	2.2700e-003	6.0000e-005	2.3200e-003	0.0000	7.0910	7.0910	3.4000e-004	0.0000	7.0981
<b>Total</b>	<b>6.7500e-003</b>	<b>0.0503</b>	<b>0.0816</b>	<b>2.6000e-004</b>	<b>0.0123</b>	<b>7.7000e-004</b>	<b>0.0130</b>	<b>3.2900e-003</b>	<b>7.2000e-004</b>	<b>4.0000e-003</b>	<b>0.0000</b>	<b>21.2307</b>	<b>21.2307</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>21.2400</b>

### 3.9 Telecom-Duct Bank, Vault and Cable Installation - 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	3.3200e-003	0.0362	0.0386	5.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	4.8485	4.8485	1.5300e-003	0.0000	4.8807
<b>Total</b>	<b>3.3200e-003</b>	<b>0.0362</b>	<b>0.0386</b>	<b>5.0000e-005</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>4.8485</b>	<b>4.8485</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>4.8807</b>

### 3.9 Telecom-Duct Bank, Vault and Cable Installation - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.1000e-004	1.9400e-003	1.0000e-005	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3999	0.3999	2.0000e-005	0.0000	0.4003
<b>Total</b>	<b>1.6000e-004</b>	<b>2.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3999</b>	<b>0.3999</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4003</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3200e-003	0.0362	0.0386	5.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	4.8485	4.8485	1.5300e-003	0.0000	4.8807
<b>Total</b>	<b>3.3200e-003</b>	<b>0.0362</b>	<b>0.0386</b>	<b>5.0000e-005</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>4.8485</b>	<b>4.8485</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>4.8807</b>

### 3.9 Telecom-Duct Bank, Vault and Cable Installation - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.1000e-004	1.9400e-003	1.0000e-005	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3999	0.3999	2.0000e-005	0.0000	0.4003
<b>Total</b>	<b>1.6000e-004</b>	<b>2.1000e-004</b>	<b>1.9400e-003</b>	<b>1.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3999</b>	<b>0.3999</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4003</b>

### 3.10 69/12 kV Substation-Driveways/Sidewalks - 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	0.0356	0.3776	0.3125	5.0000e-004		0.0212	0.0212		0.0195	0.0195	0.0000	45.3395	45.3395	0.0143	0.0000	45.6407
Paving	8.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0438</b>	<b>0.3776</b>	<b>0.3125</b>	<b>5.0000e-004</b>		<b>0.0212</b>	<b>0.0212</b>		<b>0.0195</b>	<b>0.0195</b>	<b>0.0000</b>	<b>45.3395</b>	<b>45.3395</b>	<b>0.0143</b>	<b>0.0000</b>	<b>45.6407</b>

**3.10 69/12 kV Substation-Driveways/Sidewalks - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0200e-003	1.3500e-003	0.0126	4.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.5991	2.5991	1.2000e-004	0.0000	2.6018
<b>Total</b>	<b>1.0200e-003</b>	<b>1.3500e-003</b>	<b>0.0126</b>	<b>4.0000e-005</b>	<b>3.1300e-003</b>	<b>2.0000e-005</b>	<b>3.1500e-003</b>	<b>8.3000e-004</b>	<b>2.0000e-005</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>2.5991</b>	<b>2.5991</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.6018</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0356	0.3776	0.3125	5.0000e-004		0.0212	0.0212		0.0195	0.0195	0.0000	45.3394	45.3394	0.0143	0.0000	45.6407
Paving	8.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0438</b>	<b>0.3776</b>	<b>0.3125</b>	<b>5.0000e-004</b>		<b>0.0212</b>	<b>0.0212</b>		<b>0.0195</b>	<b>0.0195</b>	<b>0.0000</b>	<b>45.3394</b>	<b>45.3394</b>	<b>0.0143</b>	<b>0.0000</b>	<b>45.6407</b>





### 3.11 Energizing-Testing and Commissioning - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	8.4000e-004	7.8700e-003	2.0000e-005	1.9500e-003	1.0000e-005	1.9600e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.6195	1.6195	8.0000e-005	0.0000	1.6211
<b>Total</b>	<b>6.4000e-004</b>	<b>8.4000e-004</b>	<b>7.8700e-003</b>	<b>2.0000e-005</b>	<b>1.9500e-003</b>	<b>1.0000e-005</b>	<b>1.9600e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.6195</b>	<b>1.6195</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.6211</b>

### 3.12 Temporary Staging Yard-Cleanup - 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					2.9200e-003	0.0000	2.9200e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7000e-004	6.4800e-003	6.2300e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	0.7738	0.7738	2.4000e-004	0.0000	0.7788
<b>Total</b>	<b>6.7000e-004</b>	<b>6.4800e-003</b>	<b>6.2300e-003</b>	<b>1.0000e-005</b>	<b>2.9200e-003</b>	<b>4.2000e-004</b>	<b>3.3400e-003</b>	<b>3.1000e-004</b>	<b>3.9000e-004</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>0.7738</b>	<b>0.7738</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7788</b>



### 3.12 Temporary Staging Yard-Cleanup - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1200e-003	0.0131	0.0133	5.0000e-005	1.0500e-003	2.0000e-004	1.2500e-003	2.9000e-004	1.9000e-004	4.7000e-004	0.0000	3.9890	3.9890	3.0000e-005	0.0000	3.9896
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.9000e-004	1.7500e-003	1.0000e-005	4.3000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3599	0.3599	2.0000e-005	0.0000	0.3602
<b>Total</b>	<b>1.2600e-003</b>	<b>0.0133</b>	<b>0.0151</b>	<b>6.0000e-005</b>	<b>1.4800e-003</b>	<b>2.0000e-004</b>	<b>1.6900e-003</b>	<b>4.1000e-004</b>	<b>1.9000e-004</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>4.3488</b>	<b>4.3488</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>4.3498</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9200e-003	0.0000	2.9200e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7000e-004	6.4800e-003	6.2300e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	0.7738	0.7738	2.4000e-004	0.0000	0.7788
<b>Total</b>	<b>6.7000e-004</b>	<b>6.4800e-003</b>	<b>6.2300e-003</b>	<b>1.0000e-005</b>	<b>2.9200e-003</b>	<b>4.2000e-004</b>	<b>3.3400e-003</b>	<b>3.1000e-004</b>	<b>3.9000e-004</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>0.7738</b>	<b>0.7738</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.7788</b>



### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

### 4.3 Trip Type Information

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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy



### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

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

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



## 6.2 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	0.0114					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	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0114</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### Mitigated

	ROG	NOx	CO	SO2	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	0.0114					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	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0114</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 7.0 Water Detail

---

### 7.1 Mitigation Measures Water

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

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

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

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 9.0 Operational Offroad

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

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## Ocean Ranch Substation Project San Diego County, Summer

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	0.00	User Defined Unit	7.49	0.00	0
Other Asphalt Surfaces	0.00	Acre	6.29	0.00	0
Other Non-Asphalt Surfaces	0.00	Acre	16.50	0.00	0

#### 1.2 Other Project Characteristics

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

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

Project Characteristics -

Land Use - User Defined Industrial = 7.49 acres for substation. Other asphalt surfaces= 0.92 ac of 69kv loop-in, 3.20 ac of 12kv distribution, and 2.17 roads/driveways. Other non-asphalt surfaces = 16.5 acres of unpaved staging areas.

Construction Phase - Project phases and schedule based on PEA, Section 3.0 Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

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Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information take from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description. No off-road equipment will be used during this phase.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	0	19602
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tblConstructionPhase	NumDays	20.00	27.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
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tblConstructionPhase	NumDaysWeek	5.00	6.00
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tblConstructionPhase	PhaseEndDate	5/28/2019	2/28/2019
tblConstructionPhase	PhaseEndDate	5/29/2019	3/30/2019
tblConstructionPhase	PhaseEndDate	6/27/2019	4/30/2019
tblConstructionPhase	PhaseStartDate	2/25/2018	1/1/2018
tblConstructionPhase	PhaseStartDate	5/1/2019	2/1/2019
tblConstructionPhase	PhaseStartDate	3/1/2019	1/1/2019
tblConstructionPhase	PhaseStartDate	3/31/2019	2/1/2019
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tblGrading	AcresOfGrading	0.00	5.50
tblLandUse	LotAcreage	0.00	7.49
tblLandUse	LotAcreage	0.00	6.29
tblLandUse	LotAcreage	0.00	16.50
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Other General Industrial Equipment
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	PhaseName		69 kV Underground Power Line-Duct Bank and Vault Installation
tblOffRoadEquipment	PhaseName		69 kV Underground Power Line-Duct Bank and Vault Installation
tblOffRoadEquipment	PhaseName		69 kV Underground Power Line-Duct Bank and Vault Installation
tblOffRoadEquipment	PhaseName		69 kV Underground Power Line-Duct Bank and Vault Installation

tblOffRoadEquipment	PhaseName		69 kV Underground Power Line-Duct Bank and Vault Installation
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tblOffRoadEquipment	PhaseName		69 kV Underground Power Line-Duct Bank and Vault Installation
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tblOffRoadEquipment	UsageHours	8.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00



tblProjectCharacteristics	OperationalYear	2014	2020
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tblTripsAndVMT	HaulingTripNumber	0.00	123.00
tblTripsAndVMT	HaulingTripNumber	0.00	2,425.00
tblTripsAndVMT	HaulingTripNumber	0.00	249.00
tblTripsAndVMT	HaulingTripNumber	0.00	436.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	15.00
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tblTripsAndVMT	WorkerTripNumber	35.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	0.00	5.00

## 2.0 Emissions Summary

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## 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					
2017	9.0316	103.1819	71.7209	0.1028	14.4624	4.6033	19.0657	7.6788	4.2357	11.9146	0.0000	10,399.8257	10,399.8257	2.5487	0.0000	10,453.3475
2018	10.6247	115.8949	86.1172	0.1336	14.7394	5.5538	20.2932	7.7482	5.1118	12.8599	0.0000	13,288.5058	13,288.5058	3.4613	0.0000	13,361.1929
2019	4.0361	38.2801	33.9167	0.0641	1.4772	2.0644	2.6529	0.2420	1.9690	2.1267	0.0000	6,077.3518	6,077.3518	1.0710	0.0000	6,099.8425
<b>Total</b>	<b>23.6923</b>	<b>257.3569</b>	<b>191.7549</b>	<b>0.3005</b>	<b>30.6790</b>	<b>12.2215</b>	<b>42.0118</b>	<b>15.6690</b>	<b>11.3165</b>	<b>26.9012</b>	<b>0.0000</b>	<b>29,765.6833</b>	<b>29,765.6833</b>	<b>7.0809</b>	<b>0.0000</b>	<b>29,914.3829</b>

### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	9.0316	103.1819	71.7209	0.1028	14.4624	4.6033	19.0657	7.6788	4.2357	11.9146	0.0000	10,399.8257	10,399.8257	2.5487	0.0000	10,453.3475
2018	10.6247	115.8949	86.1172	0.1336	14.7394	5.5538	20.2932	7.7482	5.1118	12.8599	0.0000	13,288.5058	13,288.5058	3.4613	0.0000	13,361.1929
2019	4.0361	38.2801	33.9167	0.0641	1.4772	2.0644	2.6529	0.2420	1.9690	2.1267	0.0000	6,077.3518	6,077.3518	1.0710	0.0000	6,099.8425
<b>Total</b>	<b>23.6923</b>	<b>257.3569</b>	<b>191.7549</b>	<b>0.3005</b>	<b>30.6790</b>	<b>12.2215</b>	<b>42.0118</b>	<b>15.6690</b>	<b>11.3165</b>	<b>26.9012</b>	<b>0.0000</b>	<b>29,765.6833</b>	<b>29,765.6833</b>	<b>7.0809</b>	<b>0.0000</b>	<b>29,914.3829</b>



## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0622	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0622</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0622	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0622</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Temporary Staging Yard-Preparation	Site Preparation	10/1/2017	10/7/2017	6	6	1 week duration
2	69/12 kV Substation-Site Development and Grading	Grading	10/8/2017	2/24/2018	6	120	5 month duration
3	69/12 kV Substation-Retaining/Boundary Walls	Building Construction	1/1/2018	2/28/2018	6	51	2 month duration
4	69/12 kV Substation-Below Grade	Trenching	3/1/2018	8/31/2018	6	158	6 month duration
5	69/12 kV Substation-Equipment Installation	Building Construction	9/1/2018	2/28/2019	6	155	6 month duration
6	69 kV Underground Power Line-Duct Bank and Vault Installation	Trenching	1/1/2019	3/30/2019	6	77	3 month duration
7	12 kV Distribution-Trench and Conductor Installation	Trenching	2/1/2019	4/30/2019	6	76	3 month duration
8	Telecom-Duct Bank, Vault and Cable Installation	Trenching	2/1/2019	2/28/2019	6	24	1 month duration
9	69/12 kV Substation-Driveways/Sidewalks	Paving	3/1/2019	4/30/2019	6	52	2 month duration
10	Energizing-Testing and Commissioning	Site Preparation	5/1/2019	5/31/2019	6	27	1 month duration
11	Temporary Staging Yard-Cleanup	Site Preparation	6/1/2019	6/7/2019	6	6	1 week duration

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Temporary Staging Yard-Preparation	Dumpers/Tenders	3	6.00	16	0.38
Temporary Staging Yard-Preparation	Rubber Tired Dozers	0	0.00	255	0.40
Temporary Staging Yard-Preparation	Rubber Tired Loaders	1	6.00	199	0.36
Temporary Staging Yard-Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
69/12 kV Substation-Site Development and Grading	Excavators	1	6.00	162	0.38
69/12 kV Substation-Site Development and Grading	Graders	1	6.00	174	0.41
69/12 kV Substation-Site Development and Grading	Plate Compactors	1	7.00	8	0.43
69/12 kV Substation-Site Development and Grading	Rubber Tired Dozers	3	6.00	255	0.40
69/12 kV Substation-Site Development and Grading	Scrapers	2	8.00	361	0.48
69/12 kV Substation-Site Development and Grading	Scrapers	1	7.00	361	0.48
69/12 kV Substation-Site Development and Grading	Skid Steer Loaders	1	4.00	64	0.37
69/12 kV Substation-Site Development and Grading	Skid Steer Loaders	1	3.00	64	0.37
69/12 kV Substation-Site Development and Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
69/12 kV Substation-Site Development and Grading	Trenchers	1	6.00	80	0.50
69/12 kV Substation-Retaining/Boundary Walls	Cranes	0	0.00	226	0.29
69/12 kV Substation-Retaining/Boundary Walls	Excavators	1	9.00	162	0.38
69/12 kV Substation-Retaining/Boundary Walls	Forklifts	1	2.00	89	0.20
69/12 kV Substation-Retaining/Boundary Walls	Generator Sets	0	0.00	84	0.74
69/12 kV Substation-Retaining/Boundary Walls	Graders	1	8.00	174	0.41
69/12 kV Substation-Retaining/Boundary Walls	Plate Compactors	2	8.00	8	0.43
69/12 kV Substation-Retaining/Boundary Walls	Skid Steer Loaders	1	6.00	64	0.37

69/12 kV Substation-Retaining/Boundary Walls	Tractors/Loaders/Backhoes	2	7.00	97	0.37
69/12 kV Substation-Retaining/Boundary Walls	Tractors/Loaders/Backhoes	3	8.00	97	0.37
69/12 kV Substation-Retaining/Boundary Walls	Welders	0	0.00	46	0.45
69/12 kV Substation-Below Grade	Excavators	1	7.00	162	0.38
69/12 kV Substation-Below Grade	Rubber Tired Loaders	1	6.00	199	0.36
69/12 kV Substation-Below Grade	Skid Steer Loaders	1	4.00	64	0.37
69/12 kV Substation-Below Grade	Tractors/Loaders/Backhoes	1	7.00	97	0.37
69/12 kV Substation-Below Grade	Trenchers	1	6.00	80	0.50
69/12 kV Substation-Equipment Installation	Aerial Lifts	1	6.00	62	0.31
69/12 kV Substation-Equipment Installation	Cranes	2	6.00	226	0.29
69/12 kV Substation-Equipment Installation	Forklifts	0	0.00	89	0.20
69/12 kV Substation-Equipment Installation	Generator Sets	1	24.00	84	0.74
69/12 kV Substation-Equipment Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
69/12 kV Substation-Equipment Installation	Welders	0	0.00	46	0.45
69 kV Underground Power Line-Duct Bank and Vault Installation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
69 kV Underground Power Line-Duct Bank and Vault Installation	Dumpers/Tenders	2	3.00	16	0.38
69 kV Underground Power Line-Duct Bank and Vault Installation	Other General Industrial Equipment	1	1.00	87	0.34
69 kV Underground Power Line-Duct Bank and Vault Installation	Air Compressors	1	7.00	78	0.48
69 kV Underground Power Line-Duct Bank and Vault Installation	Bore/Drill Rigs	0		205	0.50
69 kV Underground Power Line-Duct Bank and Vault Installation	Forklifts	0	0.00	89	0.20
69 kV Underground Power Line-Duct Bank and Vault Installation	Graders	0	0.00	174	0.41
69 kV Underground Power Line-Duct Bank and Vault Installation	Other General Industrial Equipment	0	0.00	87	0.34
12 kV Distribution-Trench and Conductor Installation	Concrete/Industrial Saws	1	1.00	81	0.73

12 kV Distribution-Trench and Conductor Installation	Cranes	1	1.00	226	0.29
12 kV Distribution-Trench and Conductor Installation	Dumpers/Tenders	1	1.00	16	0.38
12 kV Distribution-Trench and Conductor Installation	Excavators	1	1.00	162	0.38
12 kV Distribution-Trench and Conductor Installation	Forklifts	1	1.00	89	0.20
12 kV Distribution-Trench and Conductor Installation	Other General Industrial Equipment	1	1.00	87	0.34
12 kV Distribution-Trench and Conductor Installation	Pavers	1	1.00	125	0.42
12 kV Distribution-Trench and Conductor Installation	Rollers	1	1.00	80	0.38
12 kV Distribution-Trench and Conductor Installation	Skid Steer Loaders	1	6.00	64	0.37
12 kV Distribution-Trench and Conductor Installation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Telecom-Duct Bank, Vault and Cable Installation	Skid Steer Loaders	1	7.00	64	0.37
Telecom-Duct Bank, Vault and Cable Installation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
69/12 kV Substation-Driveways/Sidewalks	Pavers	1	6.00	125	0.42
69/12 kV Substation-Driveways/Sidewalks	Paving Equipment	0	0.00	130	0.36
69/12 kV Substation-Driveways/Sidewalks	Rollers	2	6.00	80	0.38
69/12 kV Substation-Driveways/Sidewalks	Rubber Tired Loaders	1	5.00	199	0.36
69/12 kV Substation-Driveways/Sidewalks	Skid Steer Loaders	1	5.00	64	0.37
69/12 kV Substation-Driveways/Sidewalks	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Energizing-Testing and Commissioning	Rubber Tired Dozers	0	0.00	255	0.40
Energizing-Testing and Commissioning	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Temporary Staging Yard-Cleanup	Dumpers/Tenders	1	2.00	16	0.38
Temporary Staging Yard-Cleanup	Rubber Tired Dozers	0	0.00	255	0.40
Temporary Staging Yard-Cleanup	Tractors/Loaders/Backhoes	1	7.00	97	0.37

**Trips and VMT**



Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Temporary Staging Yard-Preparation	5	15.00	0.00	123.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Site Development and	14	20.00	20.00	2,425.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Retaining/Boundary Wall	11	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Below Grade	5	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Equipment Installation	4	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69 kV Underground Power Line-Duct Bank	5	13.00	0.00	249.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
12 kV Distribution-Trench and Conductor	11	28.00	0.00	436.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Telecom-Duct Bank, Vault and Cable Installation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Driveways/Sidewalks	8	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Energizing-Testing and Commissioning	0	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Temporary Staging Yard-Cleanup	2	18.00	0.00	123.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Temporary Staging Yard-Preparation - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.9721	0.0000	0.9721	0.1050	0.0000	0.1050			0.0000			0.0000
Off-Road	0.7565	7.8411	3.7030	8.6200e-003		0.3664	0.3664		0.3404	0.3404		845.7939	845.7939	0.2321		850.6679
<b>Total</b>	<b>0.7565</b>	<b>7.8411</b>	<b>3.7030</b>	<b>8.6200e-003</b>	<b>0.9721</b>	<b>0.3664</b>	<b>1.3386</b>	<b>0.1050</b>	<b>0.3404</b>	<b>0.4454</b>		<b>845.7939</b>	<b>845.7939</b>	<b>0.2321</b>		<b>850.6679</b>

### 3.2 Temporary Staging Yard-Preparation - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3764	5.1227	3.9109	0.0153	0.3572	0.0690	0.4262	0.0978	0.0635	0.1613		1,518.7256	1,518.7256	0.0105		1,518.9464
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0477	0.0559	0.6070	1.5600e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		125.2526	125.2526	6.0400e-003		125.3794
<b>Total</b>	<b>0.4240</b>	<b>5.1786</b>	<b>4.5179</b>	<b>0.0169</b>	<b>0.4804</b>	<b>0.0699</b>	<b>0.5503</b>	<b>0.1305</b>	<b>0.0643</b>	<b>0.1948</b>		<b>1,643.9782</b>	<b>1,643.9782</b>	<b>0.0166</b>		<b>1,644.3258</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9721	0.0000	0.9721	0.1050	0.0000	0.1050			0.0000			0.0000
Off-Road	0.7565	7.8411	3.7030	8.6200e-003		0.3664	0.3664		0.3404	0.3404	0.0000	845.7939	845.7939	0.2321		850.6679
<b>Total</b>	<b>0.7565</b>	<b>7.8411</b>	<b>3.7030</b>	<b>8.6200e-003</b>	<b>0.9721</b>	<b>0.3664</b>	<b>1.3386</b>	<b>0.1050</b>	<b>0.3404</b>	<b>0.4454</b>	<b>0.0000</b>	<b>845.7939</b>	<b>845.7939</b>	<b>0.2321</b>		<b>850.6679</b>

### 3.2 Temporary Staging Yard-Preparation - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3764	5.1227	3.9109	0.0153	0.3572	0.0690	0.4262	0.0978	0.0635	0.1613		1,518.7256	1,518.7256	0.0105		1,518.9464
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0477	0.0559	0.6070	1.5600e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		125.2526	125.2526	6.0400e-003		125.3794
<b>Total</b>	<b>0.4240</b>	<b>5.1786</b>	<b>4.5179</b>	<b>0.0169</b>	<b>0.4804</b>	<b>0.0699</b>	<b>0.5503</b>	<b>0.1305</b>	<b>0.0643</b>	<b>0.1948</b>		<b>1,643.9782</b>	<b>1,643.9782</b>	<b>0.0166</b>		<b>1,644.3258</b>

### 3.3 69/12 kV Substation-Site Development and Grading - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					13.6351	0.0000	13.6351	7.4572	0.0000	7.4572			0.0000			0.0000
Off-Road	8.4058	96.3626	64.9680	0.0809		4.5093	4.5093		4.1492	4.1492		8,266.5887	8,266.5887	2.5268		8,319.6506
<b>Total</b>	<b>8.4058</b>	<b>96.3626</b>	<b>64.9680</b>	<b>0.0809</b>	<b>13.6351</b>	<b>4.5093</b>	<b>18.1443</b>	<b>7.4572</b>	<b>4.1492</b>	<b>11.6064</b>		<b>8,266.5887</b>	<b>8,266.5887</b>	<b>2.5268</b>		<b>8,319.6506</b>

### 3.3 69/12 kV Substation-Site Development and Grading - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3710	5.0498	3.8553	0.0151	0.5303	0.0680	0.5983	0.1401	0.0626	0.2027		1,497.1177	1,497.1177	0.0104		1,497.3353
Vendor	0.1912	1.6950	2.0883	4.7500e-003	0.1328	0.0249	0.1576	0.0379	0.0229	0.0608		469.1158	469.1158	3.4900e-003		469.1890
Worker	0.0635	0.0746	0.8093	2.0800e-003	0.1643	1.1900e-003	0.1655	0.0436	1.1000e-003	0.0447		167.0035	167.0035	8.0500e-003		167.1726
<b>Total</b>	<b>0.6258</b>	<b>6.8193</b>	<b>6.7528</b>	<b>0.0219</b>	<b>0.8273</b>	<b>0.0941</b>	<b>0.9214</b>	<b>0.2216</b>	<b>0.0865</b>	<b>0.3081</b>		<b>2,133.2370</b>	<b>2,133.2370</b>	<b>0.0219</b>		<b>2,133.6969</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.6351	0.0000	13.6351	7.4572	0.0000	7.4572			0.0000			0.0000
Off-Road	8.4058	96.3626	64.9680	0.0809		4.5093	4.5093		4.1492	4.1492	0.0000	8,266.5887	8,266.5887	2.5268		8,319.6506
<b>Total</b>	<b>8.4058</b>	<b>96.3626</b>	<b>64.9680</b>	<b>0.0809</b>	<b>13.6351</b>	<b>4.5093</b>	<b>18.1443</b>	<b>7.4572</b>	<b>4.1492</b>	<b>11.6064</b>	<b>0.0000</b>	<b>8,266.5887</b>	<b>8,266.5887</b>	<b>2.5268</b>		<b>8,319.6506</b>

**3.3 69/12 kV Substation-Site Development and Grading - 2017**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3710	5.0498	3.8553	0.0151	0.5303	0.0680	0.5983	0.1401	0.0626	0.2027		1,497.1177	1,497.1177	0.0104		1,497.3353
Vendor	0.1912	1.6950	2.0883	4.7500e-003	0.1328	0.0249	0.1576	0.0379	0.0229	0.0608		469.1158	469.1158	3.4900e-003		469.1890
Worker	0.0635	0.0746	0.8093	2.0800e-003	0.1643	1.1900e-003	0.1655	0.0436	1.1000e-003	0.0447		167.0035	167.0035	8.0500e-003		167.1726
<b>Total</b>	<b>0.6258</b>	<b>6.8193</b>	<b>6.7528</b>	<b>0.0219</b>	<b>0.8273</b>	<b>0.0941</b>	<b>0.9214</b>	<b>0.2216</b>	<b>0.0865</b>	<b>0.3081</b>		<b>2,133.2370</b>	<b>2,133.2370</b>	<b>0.0219</b>		<b>2,133.6969</b>

**3.3 69/12 kV Substation-Site Development and Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.6351	0.0000	13.6351	7.4572	0.0000	7.4572			0.0000			0.0000
Off-Road	7.3720	83.4038	57.9625	0.0809		3.8398	3.8398		3.5333	3.5333		8,137.2027	8,137.2027	2.5270		8,190.2689
<b>Total</b>	<b>7.3720</b>	<b>83.4038</b>	<b>57.9625</b>	<b>0.0809</b>	<b>13.6351</b>	<b>3.8398</b>	<b>17.4749</b>	<b>7.4572</b>	<b>3.5333</b>	<b>10.9905</b>		<b>8,137.2027</b>	<b>8,137.2027</b>	<b>2.5270</b>		<b>8,190.2689</b>

### 3.3 69/12 kV Substation-Site Development and Grading - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3602	4.5574	3.7504	0.0151	0.7529	0.0671	0.8200	0.1948	0.0617	0.2565		1,471.4659	1,471.4659	0.0104		1,471.6838
Vendor	0.1800	1.5311	1.9899	4.7400e-003	0.1327	0.0231	0.1558	0.0379	0.0213	0.0591		461.0603	461.0603	3.4200e-003		461.1320
Worker	0.0579	0.0680	0.7346	2.0800e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		160.7393	160.7393	7.4900e-003		160.8966
<b>Total</b>	<b>0.5982</b>	<b>6.1565</b>	<b>6.4749</b>	<b>0.0219</b>	<b>1.0500</b>	<b>0.0914</b>	<b>1.1413</b>	<b>0.2763</b>	<b>0.0841</b>	<b>0.3603</b>		<b>2,093.2654</b>	<b>2,093.2654</b>	<b>0.0213</b>		<b>2,093.7123</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.6351	0.0000	13.6351	7.4572	0.0000	7.4572			0.0000			0.0000
Off-Road	7.3720	83.4038	57.9625	0.0809		3.8398	3.8398		3.5333	3.5333	0.0000	8,137.2027	8,137.2027	2.5270		8,190.2689
<b>Total</b>	<b>7.3720</b>	<b>83.4038</b>	<b>57.9625</b>	<b>0.0809</b>	<b>13.6351</b>	<b>3.8398</b>	<b>17.4749</b>	<b>7.4572</b>	<b>3.5333</b>	<b>10.9905</b>	<b>0.0000</b>	<b>8,137.2027</b>	<b>8,137.2027</b>	<b>2.5270</b>		<b>8,190.2689</b>

### 3.3 69/12 kV Substation-Site Development and Grading - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3602	4.5574	3.7504	0.0151	0.7529	0.0671	0.8200	0.1948	0.0617	0.2565		1,471.4659	1,471.4659	0.0104		1,471.6838
Vendor	0.1800	1.5311	1.9899	4.7400e-003	0.1327	0.0231	0.1558	0.0379	0.0213	0.0591		461.0603	461.0603	3.4200e-003		461.1320
Worker	0.0579	0.0680	0.7346	2.0800e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		160.7393	160.7393	7.4900e-003		160.8966
<b>Total</b>	<b>0.5982</b>	<b>6.1565</b>	<b>6.4749</b>	<b>0.0219</b>	<b>1.0500</b>	<b>0.0914</b>	<b>1.1413</b>	<b>0.2763</b>	<b>0.0841</b>	<b>0.3603</b>		<b>2,093.2654</b>	<b>2,093.2654</b>	<b>0.0213</b>		<b>2,093.7123</b>

### 3.4 69/12 kV Substation-Retaining/Boundary Walls - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6220	26.1644	21.2972	0.0298		1.6200	1.6200		1.4920	1.4920		2,971.7468	2,971.7468	0.9108		2,990.8744
<b>Total</b>	<b>2.6220</b>	<b>26.1644</b>	<b>21.2972</b>	<b>0.0298</b>		<b>1.6200</b>	<b>1.6200</b>		<b>1.4920</b>	<b>1.4920</b>		<b>2,971.7468</b>	<b>2,971.7468</b>	<b>0.9108</b>		<b>2,990.8744</b>

### 3.4 69/12 kV Substation-Retaining/Boundary Walls - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0180	0.1531	0.1990	4.7000e-004	0.0133	2.3100e-003	0.0156	3.7900e-003	2.1300e-003	5.9100e-003		46.1060	46.1060	3.4000e-004		46.1132
Worker	0.0145	0.0170	0.1837	5.2000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		40.1848	40.1848	1.8700e-003		40.2241
<b>Total</b>	<b>0.0325</b>	<b>0.1701</b>	<b>0.3826</b>	<b>9.9000e-004</b>	<b>0.0543</b>	<b>2.6000e-003</b>	<b>0.0570</b>	<b>0.0147</b>	<b>2.4000e-003</b>	<b>0.0171</b>		<b>86.2908</b>	<b>86.2908</b>	<b>2.2100e-003</b>		<b>86.3373</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6220	26.1644	21.2972	0.0298		1.6200	1.6200		1.4920	1.4920	0.0000	2,971.7468	2,971.7468	0.9108		2,990.8744
<b>Total</b>	<b>2.6220</b>	<b>26.1644</b>	<b>21.2972</b>	<b>0.0298</b>		<b>1.6200</b>	<b>1.6200</b>		<b>1.4920</b>	<b>1.4920</b>	<b>0.0000</b>	<b>2,971.7468</b>	<b>2,971.7468</b>	<b>0.9108</b>		<b>2,990.8744</b>



### 3.4 69/12 kV Substation-Retaining/Boundary Walls - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0180	0.1531	0.1990	4.7000e-004	0.0133	2.3100e-003	0.0156	3.7900e-003	2.1300e-003	5.9100e-003		46.1060	46.1060	3.4000e-004		46.1132
Worker	0.0145	0.0170	0.1837	5.2000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		40.1848	40.1848	1.8700e-003		40.2241
<b>Total</b>	<b>0.0325</b>	<b>0.1701</b>	<b>0.3826</b>	<b>9.9000e-004</b>	<b>0.0543</b>	<b>2.6000e-003</b>	<b>0.0570</b>	<b>0.0147</b>	<b>2.4000e-003</b>	<b>0.0171</b>		<b>86.2908</b>	<b>86.2908</b>	<b>2.2100e-003</b>		<b>86.3373</b>

### 3.5 69/12 kV Substation-Below Grade - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2015	12.7205	8.9843	0.0156		0.6978	0.6978		0.6419	0.6419		1,565.7505	1,565.7505	0.4874		1,575.9867
<b>Total</b>	<b>1.2015</b>	<b>12.7205</b>	<b>8.9843</b>	<b>0.0156</b>		<b>0.6978</b>	<b>0.6978</b>		<b>0.6419</b>	<b>0.6419</b>		<b>1,565.7505</b>	<b>1,565.7505</b>	<b>0.4874</b>		<b>1,575.9867</b>

### 3.5 69/12 kV Substation-Below Grade - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0145	0.0170	0.1837	5.2000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		40.1848	40.1848	1.8700e-003		40.2241
<b>Total</b>	<b>0.0145</b>	<b>0.0170</b>	<b>0.1837</b>	<b>5.2000e-004</b>	<b>0.0411</b>	<b>2.9000e-004</b>	<b>0.0414</b>	<b>0.0109</b>	<b>2.7000e-004</b>	<b>0.0112</b>		<b>40.1848</b>	<b>40.1848</b>	<b>1.8700e-003</b>		<b>40.2241</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2015	12.7205	8.9843	0.0156		0.6978	0.6978		0.6419	0.6419	0.0000	1,565.7505	1,565.7505	0.4874		1,575.9867
<b>Total</b>	<b>1.2015</b>	<b>12.7205</b>	<b>8.9843</b>	<b>0.0156</b>		<b>0.6978</b>	<b>0.6978</b>		<b>0.6419</b>	<b>0.6419</b>	<b>0.0000</b>	<b>1,565.7505</b>	<b>1,565.7505</b>	<b>0.4874</b>		<b>1,575.9867</b>

**3.5 69/12 kV Substation-Below Grade - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0145	0.0170	0.1837	5.2000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		40.1848	40.1848	1.8700e-003		40.2241
<b>Total</b>	<b>0.0145</b>	<b>0.0170</b>	<b>0.1837</b>	<b>5.2000e-004</b>	<b>0.0411</b>	<b>2.9000e-004</b>	<b>0.0414</b>	<b>0.0109</b>	<b>2.7000e-004</b>	<b>0.0112</b>		<b>40.1848</b>	<b>40.1848</b>	<b>1.8700e-003</b>		<b>40.2241</b>

**3.6 69/12 kV Substation-Equipment Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3848	22.8745	15.7476	0.0294		1.2338	1.2338		1.1980	1.1980		2,845.8467	2,845.8467	0.4389		2,855.0641
<b>Total</b>	<b>2.3848</b>	<b>22.8745</b>	<b>15.7476</b>	<b>0.0294</b>		<b>1.2338</b>	<b>1.2338</b>		<b>1.1980</b>	<b>1.1980</b>		<b>2,845.8467</b>	<b>2,845.8467</b>	<b>0.4389</b>		<b>2,855.0641</b>

### 3.6 69/12 kV Substation-Equipment Installation - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0180	0.1531	0.1990	4.7000e-004	0.0133	2.3100e-003	0.0156	3.7900e-003	2.1300e-003	5.9100e-003		46.1060	46.1060	3.4000e-004		46.1132
Worker	0.0145	0.0170	0.1837	5.2000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		40.1848	40.1848	1.8700e-003		40.2241
<b>Total</b>	<b>0.0325</b>	<b>0.1701</b>	<b>0.3826</b>	<b>9.9000e-004</b>	<b>0.0543</b>	<b>2.6000e-003</b>	<b>0.0570</b>	<b>0.0147</b>	<b>2.4000e-003</b>	<b>0.0171</b>		<b>86.2908</b>	<b>86.2908</b>	<b>2.2100e-003</b>		<b>86.3373</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3848	22.8745	15.7476	0.0294		1.2338	1.2338		1.1980	1.1980	0.0000	2,845.8467	2,845.8467	0.4389		2,855.0641
<b>Total</b>	<b>2.3848</b>	<b>22.8745</b>	<b>15.7476</b>	<b>0.0294</b>		<b>1.2338</b>	<b>1.2338</b>		<b>1.1980</b>	<b>1.1980</b>	<b>0.0000</b>	<b>2,845.8467</b>	<b>2,845.8467</b>	<b>0.4389</b>		<b>2,855.0641</b>

### 3.6 69/12 kV Substation-Equipment Installation - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0180	0.1531	0.1990	4.7000e-004	0.0133	2.3100e-003	0.0156	3.7900e-003	2.1300e-003	5.9100e-003		46.1060	46.1060	3.4000e-004		46.1132
Worker	0.0145	0.0170	0.1837	5.2000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		40.1848	40.1848	1.8700e-003		40.2241
<b>Total</b>	<b>0.0325</b>	<b>0.1701</b>	<b>0.3826</b>	<b>9.9000e-004</b>	<b>0.0543</b>	<b>2.6000e-003</b>	<b>0.0570</b>	<b>0.0147</b>	<b>2.4000e-003</b>	<b>0.0171</b>		<b>86.2908</b>	<b>86.2908</b>	<b>2.2100e-003</b>		<b>86.3373</b>

### 3.6 69/12 kV Substation-Equipment Installation - 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	2.1018	20.6517	15.3410	0.0294		1.0635	1.0635		1.0327	1.0327		2,830.0700	2,830.0700	0.4224		2,838.9413
<b>Total</b>	<b>2.1018</b>	<b>20.6517</b>	<b>15.3410</b>	<b>0.0294</b>		<b>1.0635</b>	<b>1.0635</b>		<b>1.0327</b>	<b>1.0327</b>		<b>2,830.0700</b>	<b>2,830.0700</b>	<b>0.4224</b>		<b>2,838.9413</b>

**3.6 69/12 kV Substation-Equipment Installation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0169	0.1394	0.1891	4.7000e-004	0.0133	2.1500e-003	0.0154	3.7900e-003	1.9800e-003	5.7600e-003		45.3119	45.3119	3.3000e-004		45.3189
Worker	0.0135	0.0157	0.1694	5.2000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		38.7326	38.7326	1.7600e-003		38.7696
<b>Total</b>	<b>0.0303</b>	<b>0.1551</b>	<b>0.3585</b>	<b>9.9000e-004</b>	<b>0.0543</b>	<b>2.4400e-003</b>	<b>0.0568</b>	<b>0.0147</b>	<b>2.2500e-003</b>	<b>0.0169</b>		<b>84.0445</b>	<b>84.0445</b>	<b>2.0900e-003</b>		<b>84.0885</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1018	20.6517	15.3410	0.0294		1.0635	1.0635		1.0327	1.0327	0.0000	2,830.0700	2,830.0700	0.4224		2,838.9413
<b>Total</b>	<b>2.1018</b>	<b>20.6517</b>	<b>15.3410</b>	<b>0.0294</b>		<b>1.0635</b>	<b>1.0635</b>		<b>1.0327</b>	<b>1.0327</b>	<b>0.0000</b>	<b>2,830.0700</b>	<b>2,830.0700</b>	<b>0.4224</b>		<b>2,838.9413</b>

**3.6 69/12 kV Substation-Equipment Installation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0169	0.1394	0.1891	4.7000e-004	0.0133	2.1500e-003	0.0154	3.7900e-003	1.9800e-003	5.7600e-003		45.3119	45.3119	3.3000e-004		45.3189
Worker	0.0135	0.0157	0.1694	5.2000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		38.7326	38.7326	1.7600e-003		38.7696
<b>Total</b>	<b>0.0303</b>	<b>0.1551</b>	<b>0.3585</b>	<b>9.9000e-004</b>	<b>0.0543</b>	<b>2.4400e-003</b>	<b>0.0568</b>	<b>0.0147</b>	<b>2.2500e-003</b>	<b>0.0169</b>		<b>84.0445</b>	<b>84.0445</b>	<b>2.0900e-003</b>		<b>84.0885</b>

**3.7 69 kV Underground Power Line-Duct Bank and Vault Installation - 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	0.6023	4.8288	4.6004	7.0600e-003		0.3226	0.3226		0.3098	0.3098		674.4915	674.4915	0.1277		677.1731
<b>Total</b>	<b>0.6023</b>	<b>4.8288</b>	<b>4.6004</b>	<b>7.0600e-003</b>		<b>0.3226</b>	<b>0.3226</b>		<b>0.3098</b>	<b>0.3098</b>		<b>674.4915</b>	<b>674.4915</b>	<b>0.1277</b>		<b>677.1731</b>

**3.7 69 kV Underground Power Line-Duct Bank and Vault Installation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0555	0.6666	0.5809	2.4100e-003	0.0564	0.0106	0.0669	0.0154	9.7400e-003	0.0252		231.4338	231.4338	1.6500e-003		231.4684
Vendor	0.0000	0.0000	0.0000	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	0.0409	0.4404	1.3500e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		100.7048	100.7048	4.5800e-003		100.8010
<b>Total</b>	<b>0.0905</b>	<b>0.7075</b>	<b>1.0213</b>	<b>3.7600e-003</b>	<b>0.1631</b>	<b>0.0113</b>	<b>0.1745</b>	<b>0.0438</b>	<b>0.0104</b>	<b>0.0542</b>		<b>332.1386</b>	<b>332.1386</b>	<b>6.2300e-003</b>		<b>332.2694</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6023	4.8288	4.6004	7.0600e-003		0.3226	0.3226		0.3098	0.3098	0.0000	674.4915	674.4915	0.1277		677.1731
<b>Total</b>	<b>0.6023</b>	<b>4.8288</b>	<b>4.6004</b>	<b>7.0600e-003</b>		<b>0.3226</b>	<b>0.3226</b>		<b>0.3098</b>	<b>0.3098</b>	<b>0.0000</b>	<b>674.4915</b>	<b>674.4915</b>	<b>0.1277</b>		<b>677.1731</b>



**3.7 69 kV Underground Power Line-Duct Bank and Vault Installation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0555	0.6666	0.5809	2.4100e-003	0.0564	0.0106	0.0669	0.0154	9.7400e-003	0.0252		231.4338	231.4338	1.6500e-003		231.4684
Vendor	0.0000	0.0000	0.0000	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	0.0409	0.4404	1.3500e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		100.7048	100.7048	4.5800e-003		100.8010
<b>Total</b>	<b>0.0905</b>	<b>0.7075</b>	<b>1.0213</b>	<b>3.7600e-003</b>	<b>0.1631</b>	<b>0.0113</b>	<b>0.1745</b>	<b>0.0438</b>	<b>0.0104</b>	<b>0.0542</b>		<b>332.1386</b>	<b>332.1386</b>	<b>6.2300e-003</b>		<b>332.2694</b>

**3.8 12 kV Distribution-Trench and Conductor Installation - 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	0.7474	7.6348	7.2347	0.0106		0.4628	0.4628		0.4283	0.4283		1,045.0175	1,045.0175	0.3108		1,051.5446
<b>Total</b>	<b>0.7474</b>	<b>7.6348</b>	<b>7.2347</b>	<b>0.0106</b>		<b>0.4628</b>	<b>0.4628</b>		<b>0.4283</b>	<b>0.4283</b>		<b>1,045.0175</b>	<b>1,045.0175</b>	<b>0.3108</b>		<b>1,051.5446</b>

**3.8 12 kV Distribution-Trench and Conductor Installation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0984	1.1827	1.0306	4.2700e-003	0.1000	0.0188	0.1188	0.0274	0.0173	0.0447		410.5736	410.5736	2.9300e-003		410.6350
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0754	0.0880	0.9485	2.9100e-003	0.2300	1.6300e-003	0.2316	0.0610	1.5100e-003	0.0625		216.9027	216.9027	9.8600e-003		217.1098
<b>Total</b>	<b>0.1738</b>	<b>1.2707</b>	<b>1.9791</b>	<b>7.1800e-003</b>	<b>0.3300</b>	<b>0.0204</b>	<b>0.3504</b>	<b>0.0884</b>	<b>0.0188</b>	<b>0.1072</b>		<b>627.4762</b>	<b>627.4762</b>	<b>0.0128</b>		<b>627.7448</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7474	7.6348	7.2347	0.0106		0.4628	0.4628		0.4283	0.4283	0.0000	1,045.0175	1,045.0175	0.3108		1,051.5446
<b>Total</b>	<b>0.7474</b>	<b>7.6348</b>	<b>7.2347</b>	<b>0.0106</b>		<b>0.4628</b>	<b>0.4628</b>		<b>0.4283</b>	<b>0.4283</b>	<b>0.0000</b>	<b>1,045.0175</b>	<b>1,045.0175</b>	<b>0.3108</b>		<b>1,051.5446</b>

### 3.8 12 kV Distribution-Trench and Conductor Installation - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0984	1.1827	1.0306	4.2700e-003	0.1000	0.0188	0.1188	0.0274	0.0173	0.0447		410.5736	410.5736	2.9300e-003		410.6350
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0754	0.0880	0.9485	2.9100e-003	0.2300	1.6300e-003	0.2316	0.0610	1.5100e-003	0.0625		216.9027	216.9027	9.8600e-003		217.1098
<b>Total</b>	<b>0.1738</b>	<b>1.2707</b>	<b>1.9791</b>	<b>7.1800e-003</b>	<b>0.3300</b>	<b>0.0204</b>	<b>0.3504</b>	<b>0.0884</b>	<b>0.0188</b>	<b>0.1072</b>		<b>627.4762</b>	<b>627.4762</b>	<b>0.0128</b>		<b>627.7448</b>

### 3.9 Telecom-Duct Bank, Vault and Cable Installation - 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	0.2766	3.0158	3.2125	4.5000e-003		0.1810	0.1810		0.1665	0.1665		445.3808	445.3808	0.1409		448.3400
<b>Total</b>	<b>0.2766</b>	<b>3.0158</b>	<b>3.2125</b>	<b>4.5000e-003</b>		<b>0.1810</b>	<b>0.1810</b>		<b>0.1665</b>	<b>0.1665</b>		<b>445.3808</b>	<b>445.3808</b>	<b>0.1409</b>		<b>448.3400</b>

### 3.9 Telecom-Duct Bank, Vault and Cable Installation - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0135	0.0157	0.1694	5.2000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		38.7326	38.7326	1.7600e-003		38.7696
<b>Total</b>	<b>0.0135</b>	<b>0.0157</b>	<b>0.1694</b>	<b>5.2000e-004</b>	<b>0.0411</b>	<b>2.9000e-004</b>	<b>0.0414</b>	<b>0.0109</b>	<b>2.7000e-004</b>	<b>0.0112</b>		<b>38.7326</b>	<b>38.7326</b>	<b>1.7600e-003</b>		<b>38.7696</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2766	3.0158	3.2125	4.5000e-003		0.1810	0.1810		0.1665	0.1665	0.0000	445.3808	445.3808	0.1409		448.3400
<b>Total</b>	<b>0.2766</b>	<b>3.0158</b>	<b>3.2125</b>	<b>4.5000e-003</b>		<b>0.1810</b>	<b>0.1810</b>		<b>0.1665</b>	<b>0.1665</b>	<b>0.0000</b>	<b>445.3808</b>	<b>445.3808</b>	<b>0.1409</b>		<b>448.3400</b>

### 3.9 Telecom-Duct Bank, Vault and Cable Installation - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0135	0.0157	0.1694	5.2000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		38.7326	38.7326	1.7600e-003		38.7696
<b>Total</b>	<b>0.0135</b>	<b>0.0157</b>	<b>0.1694</b>	<b>5.2000e-004</b>	<b>0.0411</b>	<b>2.9000e-004</b>	<b>0.0414</b>	<b>0.0109</b>	<b>2.7000e-004</b>	<b>0.0112</b>		<b>38.7326</b>	<b>38.7326</b>	<b>1.7600e-003</b>		<b>38.7696</b>

### 3.10 69/12 kV Substation-Driveways/Sidewalks - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3675	14.5240	12.0185	0.0194		0.8133	0.8133		0.7483	0.7483		1,922.2389	1,922.2389	0.6082		1,935.0106
Paving	0.3169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6844</b>	<b>14.5240</b>	<b>12.0185</b>	<b>0.0194</b>		<b>0.8133</b>	<b>0.8133</b>		<b>0.7483</b>	<b>0.7483</b>		<b>1,922.2389</b>	<b>1,922.2389</b>	<b>0.6082</b>		<b>1,935.0106</b>

**3.10 69/12 kV Substation-Driveways/Sidewalks - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0404	0.0472	0.5081	1.5600e-003	0.1232	8.7000e-004	0.1241	0.0327	8.1000e-004	0.0335		116.1979	116.1979	5.2800e-003		116.3088
<b>Total</b>	<b>0.0404</b>	<b>0.0472</b>	<b>0.5081</b>	<b>1.5600e-003</b>	<b>0.1232</b>	<b>8.7000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>8.1000e-004</b>	<b>0.0335</b>		<b>116.1979</b>	<b>116.1979</b>	<b>5.2800e-003</b>		<b>116.3088</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3675	14.5240	12.0185	0.0194		0.8133	0.8133		0.7483	0.7483	0.0000	1,922.2389	1,922.2389	0.6082		1,935.0105
Paving	0.3169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6844</b>	<b>14.5240</b>	<b>12.0185</b>	<b>0.0194</b>		<b>0.8133</b>	<b>0.8133</b>		<b>0.7483</b>	<b>0.7483</b>	<b>0.0000</b>	<b>1,922.2389</b>	<b>1,922.2389</b>	<b>0.6082</b>		<b>1,935.0105</b>

**3.10 69/12 kV Substation-Driveways/Sidewalks - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0404	0.0472	0.5081	1.5600e-003	0.1232	8.7000e-004	0.1241	0.0327	8.1000e-004	0.0335		116.1979	116.1979	5.2800e-003		116.3088
<b>Total</b>	<b>0.0404</b>	<b>0.0472</b>	<b>0.5081</b>	<b>1.5600e-003</b>	<b>0.1232</b>	<b>8.7000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>8.1000e-004</b>	<b>0.0335</b>		<b>116.1979</b>	<b>116.1979</b>	<b>5.2800e-003</b>		<b>116.3088</b>

**3.11 Energizing-Testing and Commissioning - 2019**

**Unmitigated Construction On-Site**

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

### 3.11 Energizing-Testing and Commissioning - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0485	0.0566	0.6097	1.8700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		139.4374	139.4374	6.3400e-003		139.5706
<b>Total</b>	<b>0.0485</b>	<b>0.0566</b>	<b>0.6097</b>	<b>1.8700e-003</b>	<b>0.1479</b>	<b>1.0500e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.7000e-004</b>	<b>0.0402</b>		<b>139.4374</b>	<b>139.4374</b>	<b>6.3400e-003</b>		<b>139.5706</b>

#### Mitigated Construction On-Site

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



### 3.11 Energizing-Testing and Commissioning - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0485	0.0566	0.6097	1.8700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		139.4374	139.4374	6.3400e-003		139.5706
<b>Total</b>	<b>0.0485</b>	<b>0.0566</b>	<b>0.6097</b>	<b>1.8700e-003</b>	<b>0.1479</b>	<b>1.0500e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.7000e-004</b>	<b>0.0402</b>		<b>139.4374</b>	<b>139.4374</b>	<b>6.3400e-003</b>		<b>139.5706</b>

### 3.12 Temporary Staging Yard-Cleanup - 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					0.9721	0.0000	0.9721	0.1050	0.0000	0.1050			0.0000			0.0000
Off-Road	0.2221	2.1616	2.0776	2.9100e-003		0.1410	0.1410		0.1301	0.1301		284.3342	284.3342	0.0868		286.1565
<b>Total</b>	<b>0.2221</b>	<b>2.1616</b>	<b>2.0776</b>	<b>2.9100e-003</b>	<b>0.9721</b>	<b>0.1410</b>	<b>1.1131</b>	<b>0.1050</b>	<b>0.1301</b>	<b>0.2351</b>		<b>284.3342</b>	<b>284.3342</b>	<b>0.0868</b>		<b>286.1565</b>

### 3.12 Temporary Staging Yard-Cleanup - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3517	4.2261	3.6828	0.0153	0.3572	0.0671	0.4243	0.0978	0.0617	0.1595		1,467.1413	1,467.1413	0.0105		1,467.3608
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0485	0.0566	0.6097	1.8700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		139.4374	139.4374	6.3400e-003		139.5706
<b>Total</b>	<b>0.4002</b>	<b>4.2827</b>	<b>4.2926</b>	<b>0.0171</b>	<b>0.5051</b>	<b>0.0682</b>	<b>0.5732</b>	<b>0.1370</b>	<b>0.0627</b>	<b>0.1997</b>		<b>1,606.5787</b>	<b>1,606.5787</b>	<b>0.0168</b>		<b>1,606.9314</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9721	0.0000	0.9721	0.1050	0.0000	0.1050			0.0000			0.0000
Off-Road	0.2221	2.1616	2.0776	2.9100e-003		0.1410	0.1410		0.1301	0.1301	0.0000	284.3342	284.3342	0.0868		286.1565
<b>Total</b>	<b>0.2221</b>	<b>2.1616</b>	<b>2.0776</b>	<b>2.9100e-003</b>	<b>0.9721</b>	<b>0.1410</b>	<b>1.1131</b>	<b>0.1050</b>	<b>0.1301</b>	<b>0.2351</b>	<b>0.0000</b>	<b>284.3342</b>	<b>284.3342</b>	<b>0.0868</b>		<b>286.1565</b>

### 3.12 Temporary Staging Yard-Cleanup - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3517	4.2261	3.6828	0.0153	0.3572	0.0671	0.4243	0.0978	0.0617	0.1595		1,467.1413	1,467.1413	0.0105		1,467.3608
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0485	0.0566	0.6097	1.8700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		139.4374	139.4374	6.3400e-003		139.5706
<b>Total</b>	<b>0.4002</b>	<b>4.2827</b>	<b>4.2926</b>	<b>0.0171</b>	<b>0.5051</b>	<b>0.0682</b>	<b>0.5732</b>	<b>0.1370</b>	<b>0.0627</b>	<b>0.1997</b>		<b>1,606.5787</b>	<b>1,606.5787</b>	<b>0.0168</b>		<b>1,606.9314</b>

### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

**5.0 Energy Detail**

**4.4 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

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

### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

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

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0622	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0622	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0622					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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0622</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

### Mitigated

	ROG	NOx	CO	SO2	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	0.0622					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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0622</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

## 7.0 Water Detail

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## 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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## Ocean Ranch Substation Project San Diego County, Winter

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	0.00	User Defined Unit	7.49	0.00	0
Other Asphalt Surfaces	0.00	Acre	6.29	0.00	0
Other Non-Asphalt Surfaces	0.00	Acre	16.50	0.00	0

#### 1.2 Other Project Characteristics

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

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

Project Characteristics -

Land Use - User Defined Industrial = 7.49 acres for substation. Other asphalt surfaces= 0.92 ac of 69kv loop-in, 3.20 ac of 12kv distribution, and 2.17 roads/driveways. Other non-asphalt surfaces = 16.5 acres of unpaved staging areas.

Construction Phase - Project phases and schedule based on PEA, Section 3.0 Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information take from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description. No off-road equipment will be used during this phase.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Off-road Equipment - Construction equipment information taken from Section 3.0-Project Description.

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
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tblTripsAndVMT	WorkerTripNumber	13.00	15.00
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## 2.0 Emissions Summary

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## 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					
2017	9.1051	103.3938	73.5973	0.1027	14.4624	4.6038	19.0661	7.6788	4.2361	11.9150	0.0000	10,382.5275	10,382.5275	2.5489	0.0000	10,436.0543
2018	10.6954	116.0908	88.0086	0.1334	14.7394	5.5543	20.2936	7.7482	5.1122	12.8603	0.0000	13,268.8860	13,268.8860	3.4616	0.0000	13,341.5785
2019	4.0607	38.3621	34.4054	0.0637	1.4772	2.0645	2.6530	0.2420	1.9691	2.1268	0.0000	6,051.3860	6,051.3860	1.0711	0.0000	6,073.8781
<b>Total</b>	<b>23.8611</b>	<b>257.8467</b>	<b>196.0113</b>	<b>0.2998</b>	<b>30.6790</b>	<b>12.2225</b>	<b>42.0128</b>	<b>15.6690</b>	<b>11.3174</b>	<b>26.9021</b>	<b>0.0000</b>	<b>29,702.7995</b>	<b>29,702.7995</b>	<b>7.0815</b>	<b>0.0000</b>	<b>29,851.5109</b>

### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	9.1051	103.3938	73.5973	0.1027	14.4624	4.6038	19.0661	7.6788	4.2361	11.9150	0.0000	10,382.5275	10,382.5275	2.5489	0.0000	10,436.0543
2018	10.6954	116.0908	88.0086	0.1334	14.7394	5.5543	20.2936	7.7482	5.1122	12.8603	0.0000	13,268.8860	13,268.8860	3.4616	0.0000	13,341.5785
2019	4.0607	38.3621	34.4054	0.0637	1.4772	2.0645	2.6530	0.2420	1.9691	2.1268	0.0000	6,051.3860	6,051.3860	1.0711	0.0000	6,073.8781
<b>Total</b>	<b>23.8611</b>	<b>257.8467</b>	<b>196.0113</b>	<b>0.2998</b>	<b>30.6790</b>	<b>12.2225</b>	<b>42.0128</b>	<b>15.6690</b>	<b>11.3174</b>	<b>26.9021</b>	<b>0.0000</b>	<b>29,702.7995</b>	<b>29,702.7995</b>	<b>7.0815</b>	<b>0.0000</b>	<b>29,851.5109</b>





## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0622	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0622</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0622	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0622</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Temporary Staging Yard-Preparation	Site Preparation	10/1/2017	10/7/2017	6	6	1 week duration
2	69/12 kV Substation-Site Development and Grading	Grading	10/8/2017	2/24/2018	6	120	5 month duration
3	69/12 kV Substation-Retaining/Boundary Walls	Building Construction	1/1/2018	2/28/2018	6	51	2 month duration
4	69/12 kV Substation-Below Grade	Trenching	3/1/2018	8/31/2018	6	158	6 month duration
5	69/12 kV Substation-Equipment Installation	Building Construction	9/1/2018	2/28/2019	6	155	6 month duration
6	69 kV Underground Power Line-Duct Bank and Vault Installation	Trenching	1/1/2019	3/30/2019	6	77	3 month duration
7	12 kV Distribution-Trench and Conductor Installation	Trenching	2/1/2019	4/30/2019	6	76	3 month duration
8	Telecom-Duct Bank, Vault and Cable Installation	Trenching	2/1/2019	2/28/2019	6	24	1 month duration
9	69/12 kV Substation-Driveways/Sidewalks	Paving	3/1/2019	4/30/2019	6	52	2 month duration
10	Energizing-Testing and Commissioning	Site Preparation	5/1/2019	5/31/2019	6	27	1 month duration
11	Temporary Staging Yard-Cleanup	Site Preparation	6/1/2019	6/7/2019	6	6	1 week duration

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Temporary Staging Yard-Preparation	Dumpers/Tenders	3	6.00	16	0.38
Temporary Staging Yard-Preparation	Rubber Tired Dozers	0	0.00	255	0.40
Temporary Staging Yard-Preparation	Rubber Tired Loaders	1	6.00	199	0.36
Temporary Staging Yard-Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
69/12 kV Substation-Site Development and Grading	Excavators	1	6.00	162	0.38
69/12 kV Substation-Site Development and Grading	Graders	1	6.00	174	0.41
69/12 kV Substation-Site Development and Grading	Plate Compactors	1	7.00	8	0.43
69/12 kV Substation-Site Development and Grading	Rubber Tired Dozers	3	6.00	255	0.40
69/12 kV Substation-Site Development and Grading	Scrapers	2	8.00	361	0.48
69/12 kV Substation-Site Development and Grading	Scrapers	1	7.00	361	0.48
69/12 kV Substation-Site Development and Grading	Skid Steer Loaders	1	4.00	64	0.37
69/12 kV Substation-Site Development and Grading	Skid Steer Loaders	1	3.00	64	0.37
69/12 kV Substation-Site Development and Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
69/12 kV Substation-Site Development and Grading	Trenchers	1	6.00	80	0.50
69/12 kV Substation-Retaining/Boundary Walls	Cranes	0	0.00	226	0.29
69/12 kV Substation-Retaining/Boundary Walls	Excavators	1	9.00	162	0.38
69/12 kV Substation-Retaining/Boundary Walls	Forklifts	1	2.00	89	0.20
69/12 kV Substation-Retaining/Boundary Walls	Generator Sets	0	0.00	84	0.74
69/12 kV Substation-Retaining/Boundary Walls	Graders	1	8.00	174	0.41
69/12 kV Substation-Retaining/Boundary Walls	Plate Compactors	2	8.00	8	0.43
69/12 kV Substation-Retaining/Boundary Walls	Skid Steer Loaders	1	6.00	64	0.37

69/12 kV Substation-Retaining/Boundary Walls	Tractors/Loaders/Backhoes	2	7.00	97	0.37
69/12 kV Substation-Retaining/Boundary Walls	Tractors/Loaders/Backhoes	3	8.00	97	0.37
69/12 kV Substation-Retaining/Boundary Walls	Welders	0	0.00	46	0.45
69/12 kV Substation-Below Grade	Excavators	1	7.00	162	0.38
69/12 kV Substation-Below Grade	Rubber Tired Loaders	1	6.00	199	0.36
69/12 kV Substation-Below Grade	Skid Steer Loaders	1	4.00	64	0.37
69/12 kV Substation-Below Grade	Tractors/Loaders/Backhoes	1	7.00	97	0.37
69/12 kV Substation-Below Grade	Trenchers	1	6.00	80	0.50
69/12 kV Substation-Equipment Installation	Aerial Lifts	1	6.00	62	0.31
69/12 kV Substation-Equipment Installation	Cranes	2	6.00	226	0.29
69/12 kV Substation-Equipment Installation	Forklifts	0	0.00	89	0.20
69/12 kV Substation-Equipment Installation	Generator Sets	1	24.00	84	0.74
69/12 kV Substation-Equipment Installation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
69/12 kV Substation-Equipment Installation	Welders	0	0.00	46	0.45
69 kV Underground Power Line-Duct Bank and Vault Installation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
69 kV Underground Power Line-Duct Bank and Vault Installation	Dumpers/Tenders	2	3.00	16	0.38
69 kV Underground Power Line-Duct Bank and Vault Installation	Other General Industrial Equipment	1	1.00	87	0.34
69 kV Underground Power Line-Duct Bank and Vault Installation	Air Compressors	1	7.00	78	0.48
69 kV Underground Power Line-Duct Bank and Vault Installation	Bore/Drill Rigs	0		205	0.50
69 kV Underground Power Line-Duct Bank and Vault Installation	Forklifts	0	0.00	89	0.20
69 kV Underground Power Line-Duct Bank and Vault Installation	Graders	0	0.00	174	0.41
69 kV Underground Power Line-Duct Bank and Vault Installation	Other General Industrial Equipment	0	0.00	87	0.34
12 kV Distribution-Trench and Conductor Installation	Concrete/Industrial Saws	1	1.00	81	0.73

12 kV Distribution-Trench and Conductor Installation	Cranes	1	1.00	226	0.29
12 kV Distribution-Trench and Conductor Installation	Dumpers/Tenders	1	1.00	16	0.38
12 kV Distribution-Trench and Conductor Installation	Excavators	1	1.00	162	0.38
12 kV Distribution-Trench and Conductor Installation	Forklifts	1	1.00	89	0.20
12 kV Distribution-Trench and Conductor Installation	Other General Industrial Equipment	1	1.00	87	0.34
12 kV Distribution-Trench and Conductor Installation	Pavers	1	1.00	125	0.42
12 kV Distribution-Trench and Conductor Installation	Rollers	1	1.00	80	0.38
12 kV Distribution-Trench and Conductor Installation	Skid Steer Loaders	1	6.00	64	0.37
12 kV Distribution-Trench and Conductor Installation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Telecom-Duct Bank, Vault and Cable Installation	Skid Steer Loaders	1	7.00	64	0.37
Telecom-Duct Bank, Vault and Cable Installation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
69/12 kV Substation-Driveways/Sidewalks	Pavers	1	6.00	125	0.42
69/12 kV Substation-Driveways/Sidewalks	Paving Equipment	0	0.00	130	0.36
69/12 kV Substation-Driveways/Sidewalks	Rollers	2	6.00	80	0.38
69/12 kV Substation-Driveways/Sidewalks	Rubber Tired Loaders	1	5.00	199	0.36
69/12 kV Substation-Driveways/Sidewalks	Skid Steer Loaders	1	5.00	64	0.37
69/12 kV Substation-Driveways/Sidewalks	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Energizing-Testing and Commissioning	Rubber Tired Dozers	0	0.00	255	0.40
Energizing-Testing and Commissioning	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Temporary Staging Yard-Cleanup	Dumpers/Tenders	1	2.00	16	0.38
Temporary Staging Yard-Cleanup	Rubber Tired Dozers	0	0.00	255	0.40
Temporary Staging Yard-Cleanup	Tractors/Loaders/Backhoes	1	7.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Temporary Staging Yard-Preparation	5	15.00	0.00	123.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Site Development and	14	20.00	20.00	2,425.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Retaining/Boundary Wall	11	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Below Grade	5	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Equipment Installation	4	5.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69 kV Underground Power Line-Duct Bank	5	13.00	0.00	249.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
12 kV Distribution-Trench and Conductor	11	28.00	0.00	436.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Telecom-Duct Bank, Vault and Cable Installation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
69/12 kV Substation-Driveways/Sidewalks	8	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Energizing-Testing and Commissioning	0	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Temporary Staging Yard-Cleanup	2	18.00	0.00	123.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Temporary Staging Yard-Preparation - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.9721	0.0000	0.9721	0.1050	0.0000	0.1050			0.0000			0.0000
Off-Road	0.7565	7.8411	3.7030	8.6200e-003		0.3664	0.3664		0.3404	0.3404		845.7939	845.7939	0.2321		850.6679
<b>Total</b>	<b>0.7565</b>	<b>7.8411</b>	<b>3.7030</b>	<b>8.6200e-003</b>	<b>0.9721</b>	<b>0.3664</b>	<b>1.3386</b>	<b>0.1050</b>	<b>0.3404</b>	<b>0.4454</b>		<b>845.7939</b>	<b>845.7939</b>	<b>0.2321</b>		<b>850.6679</b>

### 3.2 Temporary Staging Yard-Preparation - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4175	5.2876	5.0832	0.0153	0.3572	0.0692	0.4264	0.0978	0.0636	0.1614		1,515.1585	1,515.1585	0.0107		1,515.3823
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
<b>Total</b>	<b>0.4679</b>	<b>5.3504</b>	<b>5.6700</b>	<b>0.0168</b>	<b>0.4804</b>	<b>0.0701</b>	<b>0.5505</b>	<b>0.1305</b>	<b>0.0645</b>	<b>0.1950</b>		<b>1,632.7807</b>	<b>1,632.7807</b>	<b>0.0167</b>		<b>1,633.1314</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9721	0.0000	0.9721	0.1050	0.0000	0.1050			0.0000			0.0000
Off-Road	0.7565	7.8411	3.7030	8.6200e-003		0.3664	0.3664		0.3404	0.3404	0.0000	845.7939	845.7939	0.2321		850.6679
<b>Total</b>	<b>0.7565</b>	<b>7.8411</b>	<b>3.7030</b>	<b>8.6200e-003</b>	<b>0.9721</b>	<b>0.3664</b>	<b>1.3386</b>	<b>0.1050</b>	<b>0.3404</b>	<b>0.4454</b>	<b>0.0000</b>	<b>845.7939</b>	<b>845.7939</b>	<b>0.2321</b>		<b>850.6679</b>

### 3.2 Temporary Staging Yard-Preparation - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4175	5.2876	5.0832	0.0153	0.3572	0.0692	0.4264	0.0978	0.0636	0.1614		1,515.1585	1,515.1585	0.0107		1,515.3823
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0504	0.0628	0.5868	1.4700e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		117.6222	117.6222	6.0400e-003		117.7491
<b>Total</b>	<b>0.4679</b>	<b>5.3504</b>	<b>5.6700</b>	<b>0.0168</b>	<b>0.4804</b>	<b>0.0701</b>	<b>0.5505</b>	<b>0.1305</b>	<b>0.0645</b>	<b>0.1950</b>		<b>1,632.7807</b>	<b>1,632.7807</b>	<b>0.0167</b>		<b>1,633.1314</b>

### 3.3 69/12 kV Substation-Site Development and Grading - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					13.6351	0.0000	13.6351	7.4572	0.0000	7.4572			0.0000			0.0000
Off-Road	8.4058	96.3626	64.9680	0.0809		4.5093	4.5093		4.1492	4.1492		8,266.5887	8,266.5887	2.5268		8,319.6506
<b>Total</b>	<b>8.4058</b>	<b>96.3626</b>	<b>64.9680</b>	<b>0.0809</b>	<b>13.6351</b>	<b>4.5093</b>	<b>18.1443</b>	<b>7.4572</b>	<b>4.1492</b>	<b>11.6064</b>		<b>8,266.5887</b>	<b>8,266.5887</b>	<b>2.5268</b>		<b>8,319.6506</b>



**3.3 69/12 kV Substation-Site Development and Grading - 2017**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4116	5.2124	5.0109	0.0151	0.5303	0.0682	0.5984	0.1401	0.0627	0.2029		1,493.6014	1,493.6014	0.0105		1,493.8220
Vendor	0.2205	1.7351	2.8360	4.7300e-003	0.1328	0.0251	0.1579	0.0379	0.0231	0.0610		465.5077	465.5077	3.5800e-003		465.5829
Worker	0.0671	0.0837	0.7823	1.9500e-003	0.1643	1.1900e-003	0.1655	0.0436	1.1000e-003	0.0447		156.8296	156.8296	8.0500e-003		156.9987
<b>Total</b>	<b>0.6993</b>	<b>7.0312</b>	<b>8.6293</b>	<b>0.0218</b>	<b>0.8273</b>	<b>0.0945</b>	<b>0.9218</b>	<b>0.2216</b>	<b>0.0869</b>	<b>0.3085</b>		<b>2,115.9387</b>	<b>2,115.9387</b>	<b>0.0221</b>		<b>2,116.4037</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.6351	0.0000	13.6351	7.4572	0.0000	7.4572			0.0000			0.0000
Off-Road	8.4058	96.3626	64.9680	0.0809		4.5093	4.5093		4.1492	4.1492	0.0000	8,266.5887	8,266.5887	2.5268		8,319.6506
<b>Total</b>	<b>8.4058</b>	<b>96.3626</b>	<b>64.9680</b>	<b>0.0809</b>	<b>13.6351</b>	<b>4.5093</b>	<b>18.1443</b>	<b>7.4572</b>	<b>4.1492</b>	<b>11.6064</b>	<b>0.0000</b>	<b>8,266.5887</b>	<b>8,266.5887</b>	<b>2.5268</b>		<b>8,319.6506</b>

**3.3 69/12 kV Substation-Site Development and Grading - 2017**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4116	5.2124	5.0109	0.0151	0.5303	0.0682	0.5984	0.1401	0.0627	0.2029		1,493.6014	1,493.6014	0.0105		1,493.8220
Vendor	0.2205	1.7351	2.8360	4.7300e-003	0.1328	0.0251	0.1579	0.0379	0.0231	0.0610		465.5077	465.5077	3.5800e-003		465.5829
Worker	0.0671	0.0837	0.7823	1.9500e-003	0.1643	1.1900e-003	0.1655	0.0436	1.1000e-003	0.0447		156.8296	156.8296	8.0500e-003		156.9987
<b>Total</b>	<b>0.6993</b>	<b>7.0312</b>	<b>8.6293</b>	<b>0.0218</b>	<b>0.8273</b>	<b>0.0945</b>	<b>0.9218</b>	<b>0.2216</b>	<b>0.0869</b>	<b>0.3085</b>		<b>2,115.9387</b>	<b>2,115.9387</b>	<b>0.0221</b>		<b>2,116.4037</b>

**3.3 69/12 kV Substation-Site Development and Grading - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.6351	0.0000	13.6351	7.4572	0.0000	7.4572			0.0000			0.0000
Off-Road	7.3720	83.4038	57.9625	0.0809		3.8398	3.8398		3.5333	3.5333		8,137.2027	8,137.2027	2.5270		8,190.2689
<b>Total</b>	<b>7.3720</b>	<b>83.4038</b>	<b>57.9625</b>	<b>0.0809</b>	<b>13.6351</b>	<b>3.8398</b>	<b>17.4749</b>	<b>7.4572</b>	<b>3.5333</b>	<b>10.9905</b>		<b>8,137.2027</b>	<b>8,137.2027</b>	<b>2.5270</b>		<b>8,190.2689</b>

### 3.3 69/12 kV Substation-Site Development and Grading - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3977	4.7039	4.8790	0.0151	0.7529	0.0673	0.8202	0.1948	0.0619	0.2567		1,468.0063	1,468.0063	0.0105		1,468.2273
Vendor	0.2068	1.5666	2.7153	4.7200e-003	0.1327	0.0233	0.1561	0.0379	0.0215	0.0593		457.5056	457.5056	3.5100e-003		457.5794
Worker	0.0610	0.0763	0.7065	1.9500e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		150.9392	150.9392	7.4900e-003		151.0965
<b>Total</b>	<b>0.6654</b>	<b>6.3468</b>	<b>8.3008</b>	<b>0.0217</b>	<b>1.0500</b>	<b>0.0918</b>	<b>1.1417</b>	<b>0.2763</b>	<b>0.0844</b>	<b>0.3607</b>		<b>2,076.4511</b>	<b>2,076.4511</b>	<b>0.0215</b>		<b>2,076.9032</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.6351	0.0000	13.6351	7.4572	0.0000	7.4572			0.0000			0.0000
Off-Road	7.3720	83.4038	57.9625	0.0809		3.8398	3.8398		3.5333	3.5333	0.0000	8,137.2027	8,137.2027	2.5270		8,190.2689
<b>Total</b>	<b>7.3720</b>	<b>83.4038</b>	<b>57.9625</b>	<b>0.0809</b>	<b>13.6351</b>	<b>3.8398</b>	<b>17.4749</b>	<b>7.4572</b>	<b>3.5333</b>	<b>10.9905</b>	<b>0.0000</b>	<b>8,137.2027</b>	<b>8,137.2027</b>	<b>2.5270</b>		<b>8,190.2689</b>

### 3.3 69/12 kV Substation-Site Development and Grading - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3977	4.7039	4.8790	0.0151	0.7529	0.0673	0.8202	0.1948	0.0619	0.2567		1,468.0063	1,468.0063	0.0105		1,468.2273
Vendor	0.2068	1.5666	2.7153	4.7200e-003	0.1327	0.0233	0.1561	0.0379	0.0215	0.0593		457.5056	457.5056	3.5100e-003		457.5794
Worker	0.0610	0.0763	0.7065	1.9500e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		150.9392	150.9392	7.4900e-003		151.0965
<b>Total</b>	<b>0.6654</b>	<b>6.3468</b>	<b>8.3008</b>	<b>0.0217</b>	<b>1.0500</b>	<b>0.0918</b>	<b>1.1417</b>	<b>0.2763</b>	<b>0.0844</b>	<b>0.3607</b>		<b>2,076.4511</b>	<b>2,076.4511</b>	<b>0.0215</b>		<b>2,076.9032</b>

### 3.4 69/12 kV Substation-Retaining/Boundary Walls - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6220	26.1644	21.2972	0.0298		1.6200	1.6200		1.4920	1.4920		2,971.7468	2,971.7468	0.9108		2,990.8744
<b>Total</b>	<b>2.6220</b>	<b>26.1644</b>	<b>21.2972</b>	<b>0.0298</b>		<b>1.6200</b>	<b>1.6200</b>		<b>1.4920</b>	<b>1.4920</b>		<b>2,971.7468</b>	<b>2,971.7468</b>	<b>0.9108</b>		<b>2,990.8744</b>

### 3.4 69/12 kV Substation-Retaining/Boundary Walls - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0207	0.1567	0.2715	4.7000e-004	0.0133	2.3300e-003	0.0156	3.7900e-003	2.1500e-003	5.9300e-003		45.7506	45.7506	3.5000e-004		45.7579
Worker	0.0153	0.0191	0.1766	4.9000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		37.7348	37.7348	1.8700e-003		37.7741
<b>Total</b>	<b>0.0359</b>	<b>0.1758</b>	<b>0.4482</b>	<b>9.6000e-004</b>	<b>0.0543</b>	<b>2.6200e-003</b>	<b>0.0570</b>	<b>0.0147</b>	<b>2.4200e-003</b>	<b>0.0171</b>		<b>83.4854</b>	<b>83.4854</b>	<b>2.2200e-003</b>		<b>83.5321</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6220	26.1644	21.2972	0.0298		1.6200	1.6200		1.4920	1.4920	0.0000	2,971.7468	2,971.7468	0.9108		2,990.8744
<b>Total</b>	<b>2.6220</b>	<b>26.1644</b>	<b>21.2972</b>	<b>0.0298</b>		<b>1.6200</b>	<b>1.6200</b>		<b>1.4920</b>	<b>1.4920</b>	<b>0.0000</b>	<b>2,971.7468</b>	<b>2,971.7468</b>	<b>0.9108</b>		<b>2,990.8744</b>

**3.4 69/12 kV Substation-Retaining/Boundary Walls - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0207	0.1567	0.2715	4.7000e-004	0.0133	2.3300e-003	0.0156	3.7900e-003	2.1500e-003	5.9300e-003		45.7506	45.7506	3.5000e-004		45.7579
Worker	0.0153	0.0191	0.1766	4.9000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		37.7348	37.7348	1.8700e-003		37.7741
<b>Total</b>	<b>0.0359</b>	<b>0.1758</b>	<b>0.4482</b>	<b>9.6000e-004</b>	<b>0.0543</b>	<b>2.6200e-003</b>	<b>0.0570</b>	<b>0.0147</b>	<b>2.4200e-003</b>	<b>0.0171</b>		<b>83.4854</b>	<b>83.4854</b>	<b>2.2200e-003</b>		<b>83.5321</b>

**3.5 69/12 kV Substation-Below Grade - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2015	12.7205	8.9843	0.0156		0.6978	0.6978		0.6419	0.6419		1,565.7505	1,565.7505	0.4874		1,575.9867
<b>Total</b>	<b>1.2015</b>	<b>12.7205</b>	<b>8.9843</b>	<b>0.0156</b>		<b>0.6978</b>	<b>0.6978</b>		<b>0.6419</b>	<b>0.6419</b>		<b>1,565.7505</b>	<b>1,565.7505</b>	<b>0.4874</b>		<b>1,575.9867</b>

**3.5 69/12 kV Substation-Below Grade - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0153	0.0191	0.1766	4.9000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		37.7348	37.7348	1.8700e-003		37.7741
<b>Total</b>	<b>0.0153</b>	<b>0.0191</b>	<b>0.1766</b>	<b>4.9000e-004</b>	<b>0.0411</b>	<b>2.9000e-004</b>	<b>0.0414</b>	<b>0.0109</b>	<b>2.7000e-004</b>	<b>0.0112</b>		<b>37.7348</b>	<b>37.7348</b>	<b>1.8700e-003</b>		<b>37.7741</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2015	12.7205	8.9843	0.0156		0.6978	0.6978		0.6419	0.6419	0.0000	1,565.7505	1,565.7505	0.4874		1,575.9867
<b>Total</b>	<b>1.2015</b>	<b>12.7205</b>	<b>8.9843</b>	<b>0.0156</b>		<b>0.6978</b>	<b>0.6978</b>		<b>0.6419</b>	<b>0.6419</b>	<b>0.0000</b>	<b>1,565.7505</b>	<b>1,565.7505</b>	<b>0.4874</b>		<b>1,575.9867</b>

**3.5 69/12 kV Substation-Below Grade - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0153	0.0191	0.1766	4.9000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		37.7348	37.7348	1.8700e-003		37.7741
<b>Total</b>	<b>0.0153</b>	<b>0.0191</b>	<b>0.1766</b>	<b>4.9000e-004</b>	<b>0.0411</b>	<b>2.9000e-004</b>	<b>0.0414</b>	<b>0.0109</b>	<b>2.7000e-004</b>	<b>0.0112</b>		<b>37.7348</b>	<b>37.7348</b>	<b>1.8700e-003</b>		<b>37.7741</b>

**3.6 69/12 kV Substation-Equipment Installation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3848	22.8745	15.7476	0.0294		1.2338	1.2338		1.1980	1.1980		2,845.8467	2,845.8467	0.4389		2,855.0641
<b>Total</b>	<b>2.3848</b>	<b>22.8745</b>	<b>15.7476</b>	<b>0.0294</b>		<b>1.2338</b>	<b>1.2338</b>		<b>1.1980</b>	<b>1.1980</b>		<b>2,845.8467</b>	<b>2,845.8467</b>	<b>0.4389</b>		<b>2,855.0641</b>



### 3.6 69/12 kV Substation-Equipment Installation - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0207	0.1567	0.2715	4.7000e-004	0.0133	2.3300e-003	0.0156	3.7900e-003	2.1500e-003	5.9300e-003		45.7506	45.7506	3.5000e-004		45.7579
Worker	0.0153	0.0191	0.1766	4.9000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		37.7348	37.7348	1.8700e-003		37.7741
<b>Total</b>	<b>0.0359</b>	<b>0.1758</b>	<b>0.4482</b>	<b>9.6000e-004</b>	<b>0.0543</b>	<b>2.6200e-003</b>	<b>0.0570</b>	<b>0.0147</b>	<b>2.4200e-003</b>	<b>0.0171</b>		<b>83.4854</b>	<b>83.4854</b>	<b>2.2200e-003</b>		<b>83.5321</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3848	22.8745	15.7476	0.0294		1.2338	1.2338		1.1980	1.1980	0.0000	2,845.8467	2,845.8467	0.4389		2,855.0641
<b>Total</b>	<b>2.3848</b>	<b>22.8745</b>	<b>15.7476</b>	<b>0.0294</b>		<b>1.2338</b>	<b>1.2338</b>		<b>1.1980</b>	<b>1.1980</b>	<b>0.0000</b>	<b>2,845.8467</b>	<b>2,845.8467</b>	<b>0.4389</b>		<b>2,855.0641</b>

**3.6 69/12 kV Substation-Equipment Installation - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0207	0.1567	0.2715	4.7000e-004	0.0133	2.3300e-003	0.0156	3.7900e-003	2.1500e-003	5.9300e-003		45.7506	45.7506	3.5000e-004		45.7579
Worker	0.0153	0.0191	0.1766	4.9000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		37.7348	37.7348	1.8700e-003		37.7741
<b>Total</b>	<b>0.0359</b>	<b>0.1758</b>	<b>0.4482</b>	<b>9.6000e-004</b>	<b>0.0543</b>	<b>2.6200e-003</b>	<b>0.0570</b>	<b>0.0147</b>	<b>2.4200e-003</b>	<b>0.0171</b>		<b>83.4854</b>	<b>83.4854</b>	<b>2.2200e-003</b>		<b>83.5321</b>

**3.6 69/12 kV Substation-Equipment Installation - 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	2.1018	20.6517	15.3410	0.0294		1.0635	1.0635		1.0327	1.0327		2,830.0700	2,830.0700	0.4224		2,838.9413
<b>Total</b>	<b>2.1018</b>	<b>20.6517</b>	<b>15.3410</b>	<b>0.0294</b>		<b>1.0635</b>	<b>1.0635</b>		<b>1.0327</b>	<b>1.0327</b>		<b>2,830.0700</b>	<b>2,830.0700</b>	<b>0.4224</b>		<b>2,838.9413</b>

### 3.6 69/12 kV Substation-Equipment Installation - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0193	0.1426	0.2596	4.7000e-004	0.0133	2.1700e-003	0.0154	3.7900e-003	2.0000e-003	5.7800e-003		44.9618	44.9618	3.4000e-004		44.9690
Worker	0.0142	0.0176	0.1623	4.9000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		36.3694	36.3694	1.7600e-003		36.4064
<b>Total</b>	<b>0.0334</b>	<b>0.1602</b>	<b>0.4219</b>	<b>9.6000e-004</b>	<b>0.0543</b>	<b>2.4600e-003</b>	<b>0.0568</b>	<b>0.0147</b>	<b>2.2700e-003</b>	<b>0.0169</b>		<b>81.3312</b>	<b>81.3312</b>	<b>2.1000e-003</b>		<b>81.3754</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1018	20.6517	15.3410	0.0294		1.0635	1.0635		1.0327	1.0327	0.0000	2,830.0700	2,830.0700	0.4224		2,838.9413
<b>Total</b>	<b>2.1018</b>	<b>20.6517</b>	<b>15.3410</b>	<b>0.0294</b>		<b>1.0635</b>	<b>1.0635</b>		<b>1.0327</b>	<b>1.0327</b>	<b>0.0000</b>	<b>2,830.0700</b>	<b>2,830.0700</b>	<b>0.4224</b>		<b>2,838.9413</b>

**3.6 69/12 kV Substation-Equipment Installation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0193	0.1426	0.2596	4.7000e-004	0.0133	2.1700e-003	0.0154	3.7900e-003	2.0000e-003	5.7800e-003		44.9618	44.9618	3.4000e-004		44.9690
Worker	0.0142	0.0176	0.1623	4.9000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		36.3694	36.3694	1.7600e-003		36.4064
<b>Total</b>	<b>0.0334</b>	<b>0.1602</b>	<b>0.4219</b>	<b>9.6000e-004</b>	<b>0.0543</b>	<b>2.4600e-003</b>	<b>0.0568</b>	<b>0.0147</b>	<b>2.2700e-003</b>	<b>0.0169</b>		<b>81.3312</b>	<b>81.3312</b>	<b>2.1000e-003</b>		<b>81.3754</b>

**3.7 69 kV Underground Power Line-Duct Bank and Vault Installation - 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	0.6023	4.8288	4.6004	7.0600e-003		0.3226	0.3226		0.3098	0.3098		674.4915	674.4915	0.1277		677.1731
<b>Total</b>	<b>0.6023</b>	<b>4.8288</b>	<b>4.6004</b>	<b>7.0600e-003</b>		<b>0.3226</b>	<b>0.3226</b>		<b>0.3098</b>	<b>0.3098</b>		<b>674.4915</b>	<b>674.4915</b>	<b>0.1277</b>		<b>677.1731</b>

**3.7 69 kV Underground Power Line-Duct Bank and Vault Installation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0609	0.6880	0.7577	2.4000e-003	0.0564	0.0106	0.0670	0.0154	9.7600e-003	0.0252		230.8891	230.8891	1.6700e-003		230.9243
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0459	0.4220	1.2700e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		94.5605	94.5605	4.5800e-003		94.6566
<b>Total</b>	<b>0.0977</b>	<b>0.7339</b>	<b>1.1797</b>	<b>3.6700e-003</b>	<b>0.1631</b>	<b>0.0114</b>	<b>0.1745</b>	<b>0.0438</b>	<b>0.0105</b>	<b>0.0542</b>		<b>325.4496</b>	<b>325.4496</b>	<b>6.2500e-003</b>		<b>325.5809</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6023	4.8288	4.6004	7.0600e-003		0.3226	0.3226		0.3098	0.3098	0.0000	674.4915	674.4915	0.1277		677.1731
<b>Total</b>	<b>0.6023</b>	<b>4.8288</b>	<b>4.6004</b>	<b>7.0600e-003</b>		<b>0.3226</b>	<b>0.3226</b>		<b>0.3098</b>	<b>0.3098</b>	<b>0.0000</b>	<b>674.4915</b>	<b>674.4915</b>	<b>0.1277</b>		<b>677.1731</b>

**3.7 69 kV Underground Power Line-Duct Bank and Vault Installation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0609	0.6880	0.7577	2.4000e-003	0.0564	0.0106	0.0670	0.0154	9.7600e-003	0.0252		230.8891	230.8891	1.6700e-003		230.9243
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0459	0.4220	1.2700e-003	0.1068	7.6000e-004	0.1076	0.0283	7.0000e-004	0.0290		94.5605	94.5605	4.5800e-003		94.6566
<b>Total</b>	<b>0.0977</b>	<b>0.7339</b>	<b>1.1797</b>	<b>3.6700e-003</b>	<b>0.1631</b>	<b>0.0114</b>	<b>0.1745</b>	<b>0.0438</b>	<b>0.0105</b>	<b>0.0542</b>		<b>325.4496</b>	<b>325.4496</b>	<b>6.2500e-003</b>		<b>325.5809</b>

**3.8 12 kV Distribution-Trench and Conductor Installation - 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	0.7474	7.6348	7.2347	0.0106		0.4628	0.4628		0.4283	0.4283		1,045.0175	1,045.0175	0.3108		1,051.5446
<b>Total</b>	<b>0.7474</b>	<b>7.6348</b>	<b>7.2347</b>	<b>0.0106</b>		<b>0.4628</b>	<b>0.4628</b>		<b>0.4283</b>	<b>0.4283</b>		<b>1,045.0175</b>	<b>1,045.0175</b>	<b>0.3108</b>		<b>1,051.5446</b>

**3.8 12 kV Distribution-Trench and Conductor Installation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1081	1.2206	1.3442	4.2700e-003	0.1000	0.0188	0.1188	0.0274	0.0173	0.0447		409.6073	409.6073	2.9700e-003		409.6697
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0793	0.0988	0.9088	2.7300e-003	0.2300	1.6300e-003	0.2316	0.0610	1.5100e-003	0.0625		203.6687	203.6687	9.8600e-003		203.8758
<b>Total</b>	<b>0.1874</b>	<b>1.3193</b>	<b>2.2531</b>	<b>7.0000e-003</b>	<b>0.3300</b>	<b>0.0205</b>	<b>0.3504</b>	<b>0.0884</b>	<b>0.0188</b>	<b>0.1072</b>		<b>613.2760</b>	<b>613.2760</b>	<b>0.0128</b>		<b>613.5455</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7474	7.6348	7.2347	0.0106		0.4628	0.4628		0.4283	0.4283	0.0000	1,045.0175	1,045.0175	0.3108		1,051.5446
<b>Total</b>	<b>0.7474</b>	<b>7.6348</b>	<b>7.2347</b>	<b>0.0106</b>		<b>0.4628</b>	<b>0.4628</b>		<b>0.4283</b>	<b>0.4283</b>	<b>0.0000</b>	<b>1,045.0175</b>	<b>1,045.0175</b>	<b>0.3108</b>		<b>1,051.5446</b>

**3.8 12 kV Distribution-Trench and Conductor Installation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1081	1.2206	1.3442	4.2700e-003	0.1000	0.0188	0.1188	0.0274	0.0173	0.0447		409.6073	409.6073	2.9700e-003		409.6697
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0793	0.0988	0.9088	2.7300e-003	0.2300	1.6300e-003	0.2316	0.0610	1.5100e-003	0.0625		203.6687	203.6687	9.8600e-003		203.8758
<b>Total</b>	<b>0.1874</b>	<b>1.3193</b>	<b>2.2531</b>	<b>7.0000e-003</b>	<b>0.3300</b>	<b>0.0205</b>	<b>0.3504</b>	<b>0.0884</b>	<b>0.0188</b>	<b>0.1072</b>		<b>613.2760</b>	<b>613.2760</b>	<b>0.0128</b>		<b>613.5455</b>

**3.9 Telecom-Duct Bank, Vault and Cable Installation - 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	0.2766	3.0158	3.2125	4.5000e-003		0.1810	0.1810		0.1665	0.1665		445.3808	445.3808	0.1409		448.3400
<b>Total</b>	<b>0.2766</b>	<b>3.0158</b>	<b>3.2125</b>	<b>4.5000e-003</b>		<b>0.1810</b>	<b>0.1810</b>		<b>0.1665</b>	<b>0.1665</b>		<b>445.3808</b>	<b>445.3808</b>	<b>0.1409</b>		<b>448.3400</b>



### 3.9 Telecom-Duct Bank, Vault and Cable Installation - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0142	0.0176	0.1623	4.9000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		36.3694	36.3694	1.7600e-003		36.4064
<b>Total</b>	<b>0.0142</b>	<b>0.0176</b>	<b>0.1623</b>	<b>4.9000e-004</b>	<b>0.0411</b>	<b>2.9000e-004</b>	<b>0.0414</b>	<b>0.0109</b>	<b>2.7000e-004</b>	<b>0.0112</b>		<b>36.3694</b>	<b>36.3694</b>	<b>1.7600e-003</b>		<b>36.4064</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2766	3.0158	3.2125	4.5000e-003		0.1810	0.1810		0.1665	0.1665	0.0000	445.3808	445.3808	0.1409		448.3400
<b>Total</b>	<b>0.2766</b>	<b>3.0158</b>	<b>3.2125</b>	<b>4.5000e-003</b>		<b>0.1810</b>	<b>0.1810</b>		<b>0.1665</b>	<b>0.1665</b>	<b>0.0000</b>	<b>445.3808</b>	<b>445.3808</b>	<b>0.1409</b>		<b>448.3400</b>

### 3.9 Telecom-Duct Bank, Vault and Cable Installation - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0142	0.0176	0.1623	4.9000e-004	0.0411	2.9000e-004	0.0414	0.0109	2.7000e-004	0.0112		36.3694	36.3694	1.7600e-003		36.4064
<b>Total</b>	<b>0.0142</b>	<b>0.0176</b>	<b>0.1623</b>	<b>4.9000e-004</b>	<b>0.0411</b>	<b>2.9000e-004</b>	<b>0.0414</b>	<b>0.0109</b>	<b>2.7000e-004</b>	<b>0.0112</b>		<b>36.3694</b>	<b>36.3694</b>	<b>1.7600e-003</b>		<b>36.4064</b>

### 3.10 69/12 kV Substation-Driveways/Sidewalks - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3675	14.5240	12.0185	0.0194		0.8133	0.8133		0.7483	0.7483		1,922.2389	1,922.2389	0.6082		1,935.0106
Paving	0.3169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6844</b>	<b>14.5240</b>	<b>12.0185</b>	<b>0.0194</b>		<b>0.8133</b>	<b>0.8133</b>		<b>0.7483</b>	<b>0.7483</b>		<b>1,922.2389</b>	<b>1,922.2389</b>	<b>0.6082</b>		<b>1,935.0106</b>

**3.10 69/12 kV Substation-Driveways/Sidewalks - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0425	0.0529	0.4869	1.4600e-003	0.1232	8.7000e-004	0.1241	0.0327	8.1000e-004	0.0335		109.1082	109.1082	5.2800e-003		109.2192
<b>Total</b>	<b>0.0425</b>	<b>0.0529</b>	<b>0.4869</b>	<b>1.4600e-003</b>	<b>0.1232</b>	<b>8.7000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>8.1000e-004</b>	<b>0.0335</b>		<b>109.1082</b>	<b>109.1082</b>	<b>5.2800e-003</b>		<b>109.2192</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3675	14.5240	12.0185	0.0194		0.8133	0.8133		0.7483	0.7483	0.0000	1,922.2389	1,922.2389	0.6082		1,935.0105
Paving	0.3169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.6844</b>	<b>14.5240</b>	<b>12.0185</b>	<b>0.0194</b>		<b>0.8133</b>	<b>0.8133</b>		<b>0.7483</b>	<b>0.7483</b>	<b>0.0000</b>	<b>1,922.2389</b>	<b>1,922.2389</b>	<b>0.6082</b>		<b>1,935.0105</b>

**3.10 69/12 kV Substation-Driveways/Sidewalks - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0425	0.0529	0.4869	1.4600e-003	0.1232	8.7000e-004	0.1241	0.0327	8.1000e-004	0.0335		109.1082	109.1082	5.2800e-003		109.2192
<b>Total</b>	<b>0.0425</b>	<b>0.0529</b>	<b>0.4869</b>	<b>1.4600e-003</b>	<b>0.1232</b>	<b>8.7000e-004</b>	<b>0.1241</b>	<b>0.0327</b>	<b>8.1000e-004</b>	<b>0.0335</b>		<b>109.1082</b>	<b>109.1082</b>	<b>5.2800e-003</b>		<b>109.2192</b>

**3.11 Energizing-Testing and Commissioning - 2019**

**Unmitigated Construction On-Site**

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

### 3.11 Energizing-Testing and Commissioning - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0510	0.0635	0.5842	1.7600e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		130.9299	130.9299	6.3400e-003		131.0630
<b>Total</b>	<b>0.0510</b>	<b>0.0635</b>	<b>0.5842</b>	<b>1.7600e-003</b>	<b>0.1479</b>	<b>1.0500e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.7000e-004</b>	<b>0.0402</b>		<b>130.9299</b>	<b>130.9299</b>	<b>6.3400e-003</b>		<b>131.0630</b>

#### Mitigated Construction On-Site

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

### 3.11 Energizing-Testing and Commissioning - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0510	0.0635	0.5842	1.7600e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		130.9299	130.9299	6.3400e-003		131.0630
<b>Total</b>	<b>0.0510</b>	<b>0.0635</b>	<b>0.5842</b>	<b>1.7600e-003</b>	<b>0.1479</b>	<b>1.0500e-003</b>	<b>0.1489</b>	<b>0.0392</b>	<b>9.7000e-004</b>	<b>0.0402</b>		<b>130.9299</b>	<b>130.9299</b>	<b>6.3400e-003</b>		<b>131.0630</b>

### 3.12 Temporary Staging Yard-Cleanup - 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					0.9721	0.0000	0.9721	0.1050	0.0000	0.1050			0.0000			0.0000
Off-Road	0.2221	2.1616	2.0776	2.9100e-003		0.1410	0.1410		0.1301	0.1301		284.3342	284.3342	0.0868		286.1565
<b>Total</b>	<b>0.2221</b>	<b>2.1616</b>	<b>2.0776</b>	<b>2.9100e-003</b>	<b>0.9721</b>	<b>0.1410</b>	<b>1.1131</b>	<b>0.1050</b>	<b>0.1301</b>	<b>0.2351</b>		<b>284.3342</b>	<b>284.3342</b>	<b>0.0868</b>		<b>286.1565</b>

### 3.12 Temporary Staging Yard-Cleanup - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3862	4.3615	4.8035	0.0152	0.3572	0.0673	0.4245	0.0978	0.0619	0.1597		1,463.6886	1,463.6886	0.0106		1,463.9114
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0510	0.0635	0.5842	1.7600e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		130.9299	130.9299	6.3400e-003		131.0630
<b>Total</b>	<b>0.4372</b>	<b>4.4250</b>	<b>5.3877</b>	<b>0.0170</b>	<b>0.5051</b>	<b>0.0683</b>	<b>0.5734</b>	<b>0.1370</b>	<b>0.0629</b>	<b>0.1999</b>		<b>1,594.6185</b>	<b>1,594.6185</b>	<b>0.0170</b>		<b>1,594.9744</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9721	0.0000	0.9721	0.1050	0.0000	0.1050			0.0000			0.0000
Off-Road	0.2221	2.1616	2.0776	2.9100e-003		0.1410	0.1410		0.1301	0.1301	0.0000	284.3342	284.3342	0.0868		286.1565
<b>Total</b>	<b>0.2221</b>	<b>2.1616</b>	<b>2.0776</b>	<b>2.9100e-003</b>	<b>0.9721</b>	<b>0.1410</b>	<b>1.1131</b>	<b>0.1050</b>	<b>0.1301</b>	<b>0.2351</b>	<b>0.0000</b>	<b>284.3342</b>	<b>284.3342</b>	<b>0.0868</b>		<b>286.1565</b>

### 3.12 Temporary Staging Yard-Cleanup - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3862	4.3615	4.8035	0.0152	0.3572	0.0673	0.4245	0.0978	0.0619	0.1597		1,463.6886	1,463.6886	0.0106		1,463.9114
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0510	0.0635	0.5842	1.7600e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		130.9299	130.9299	6.3400e-003		131.0630
<b>Total</b>	<b>0.4372</b>	<b>4.4250</b>	<b>5.3877</b>	<b>0.0170</b>	<b>0.5051</b>	<b>0.0683</b>	<b>0.5734</b>	<b>0.1370</b>	<b>0.0629</b>	<b>0.1999</b>		<b>1,594.6185</b>	<b>1,594.6185</b>	<b>0.0170</b>		<b>1,594.9744</b>

### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

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



**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

**5.0 Energy Detail**

**4.4 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

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

### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

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

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0622	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0622	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0622					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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0622</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

### Mitigated

	ROG	NOx	CO	SO2	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	0.0622					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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0622</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

## 7.0 Water Detail

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## 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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