

Appendix A
Air Quality Emissions Report

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Air Quality Appendix
Air Quality Emissions Report
SDG&E TL674A Reconfiguration and TL666D Removal
Project
Compiled June 2018

Attachment A: Table of Contents

Attachment I.....CalEEMod Report - 2016

Attachment II.....Air Quality Helicopter Emissions - 2018

Attachment I

CalEEMod Report

Conducted 2016

TL674A Reconfiguration & TL666D Removal Project
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project is located in San Diego County

Land Use - No land uses are being constructed.

Construction Phase - Schedule taken from Chapter 3 - Project Description

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

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Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description

On-road Fugitive Dust - Worker trips assumed to be 100-percent paved, all other trips assumed to be 98-percent paved

Energy Use -

Construction Off-road Equipment Mitigation -

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tblTripsAndVMT	PhaseName			TL674A - Reconfigure Tap
tblTripsAndVMT	PhaseName			TL666D - General
tblTripsAndVMT	PhaseName			TL666D - Conductor Removal
tblTripsAndVMT	PhaseName			TL666D - Pole Removal/Modification
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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	C738 - Duct Bank	Trenching	1/20/2019	2/20/2019	6	27	
2	C510 - General	Building Construction	1/20/2019	4/15/2019	6	73	
3	C510 - Foundation Installation	Building Construction	1/20/2019	2/20/2019	6	27	
4	C510 - Pole Installation/Removal	Building Construction	1/20/2019	3/20/2019	6	51	
5	C738 - General	Building Construction	1/20/2019	3/15/2019	6	47	
6	C738 - Pole Installation and Removal	Building Construction	1/20/2019	2/20/2019	6	27	
7	TL674A - Duct Bank	Trenching	2/2/2019	6/1/2019	6	103	
8	C510 - Duct Bank	Trenching	2/2/2019	3/23/2019	6	43	
9	TL674A - Foundation Installation	Building Construction	2/2/2019	5/17/2019	6	90	
10	TL674A - General	Building Construction	2/2/2019	11/11/2019	6	242	
11	C510 - Conductor/Cable Installation/Removal	Building Construction	2/15/2019	4/15/2019	6	51	
12	C738 - Conductor/Cable Installation/Removal	Building Construction	2/15/2019	3/15/2019	6	25	
13	TL674A - Pole Installation	Building Construction	9/3/2019	11/2/2019	6	53	
14	TL674A - Underground Cable Installation	Building Construction	9/3/2019	11/2/2019	6	53	
15	TL674A - Reconfigure Tap	Building Construction	11/4/2019	11/10/2019	6	6	
16	TL666D - General	Building Construction	11/6/2019	12/31/2019	6	48	
17	TL666D - Conductor Removal	Building Construction	11/6/2019	12/6/2019	6	27	
18	TL666D - Pole Removal/Modification	Building Construction	11/15/2019	12/31/2019	6	40	

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
TL674A - Foundation Installation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
TL674A - Foundation Installation	Plate Compactors	1	4.00	8	0.43
TL674A - General	Air Compressors	2	4.00	78	0.48
C510 - Conductor/Cable Installation/Removal	Aerial Lifts	2	6.00	62	0.31
C510 - Conductor/Cable Installation/Removal	Other Construction Equipment	2	8.00	171	0.42
C738 - Conductor/Cable Installation/Removal	Aerial Lifts	2	6.00	62	0.31
C738 - Conductor/Cable Installation/Removal	Other Construction Equipment	2	8.00	171	0.42
TL674A - Pole Installation	Cranes	1	6.00	226	0.29
TL674A - Pole Installation	Aerial Lifts	2	8.00	62	0.31
TL674A - Underground Cable Installation	Aerial Lifts	2	6.00	62	0.31
TL674A - Underground Cable Installation	Other Construction Equipment	2	8.00	171	0.42
TL674A - Reconfigure Tap	Aerial Lifts	2	6.00	62	0.31
TL674A - Reconfigure Tap	Other Construction Equipment	2	8.00	171	0.42
TL666D - General	Air Compressors	1	4.00	78	0.48
TL666D - Conductor Removal	Aerial Lifts	4	6.00	62	0.31
TL666D - Conductor Removal	Other Construction Equipment	4	8.00	171	0.42
TL666D - Pole Removal/Modification	Cranes	1	6.00	226	0.29
TL666D - Pole Removal/Modification	Bore/Drill Rigs	2	5.00	205	0.50
TL666D - Pole Removal/Modification	Cranes	2	5.00	226	0.29
TL666D - Pole Removal/Modification	Tractors/Loaders/Backhoes	1	5.00	97	0.37
TL666D - Pole Removal/Modification	Plate Compactors	1	5.00	8	0.43
TL666D - Pole Removal/Modification	Concrete/Industrial Saws	2	2.00	81	0.73

TL666D - Pole Removal/Modification	Air Compressors	4	4.00	78	0.48
TL666D - Pole Removal/Modification	Aerial Lifts	2	8.00	62	0.31
TL674A - Pole Installation	Air Compressors	0	6.00	78	0.48
TL674A - Underground Cable Installation	Cement and Mortar Mixers	0	6.00	9	0.56
TL674A - Reconfigure Tap	Concrete/Industrial Saws	0	8.00	81	0.73
TL674A - Duct Bank	Concrete/Industrial Saws	0	8.00	81	0.73
TL674A - Foundation Installation	Cranes	0	4.00	226	0.29
TL674A - Foundation Installation	Forklifts	0	6.00	89	0.20
TL674A - General	Graders	0	8.00	174	0.41
TL674A - Underground Cable Installation	Pavers	0	7.00	125	0.42
TL674A - Underground Cable Installation	Rollers	0	7.00	80	0.38
TL674A - Reconfigure Tap	Rubber Tired Dozers	0	1.00	255	0.40
TL674A - Duct Bank	Rubber Tired Dozers	0	1.00	255	0.40
TL674A - Foundation Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL674A - Reconfigure Tap	Tractors/Loaders/Backhoes	0	6.00	97	0.37
TL674A - Duct Bank	Tractors/Loaders/Backhoes	0	6.00	97	0.37
TL674A - Underground Cable Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
TL674A - General	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL674A - General	Cranes	0	4.00	226	0.29
C510 - Conductor/Cable Installation/Removal	Cranes	0	4.00	226	0.29
C738 - Conductor/Cable Installation/Removal	Cranes	0	4.00	226	0.29
TL674A - Pole Installation	Cranes	0	4.00	226	0.29
TL674A - Underground Cable Installation	Cranes	0	4.00	226	0.29
TL674A - Reconfigure Tap	Cranes	0	4.00	226	0.29
TL666D - General	Cranes	0	4.00	226	0.29
TL666D - Conductor Removal	Cranes	0	4.00	226	0.29

TL666D - Pole Removal/Modification	Cranes	0	4.00	226	0.29
C510 - General	Cranes	0	4.00	226	0.29
C510 - Foundation Installation	Cranes	0	4.00	226	0.29
C510 - Pole Installation/Removal	Cranes	0	4.00	226	0.29
C738 - General	Cranes	0	4.00	226	0.29
C738 - Pole Installation and Removal	Cranes	0	4.00	226	0.29
TL674A - General	Forklifts	0	6.00	89	0.20
C510 - Conductor/Cable Installation/Removal	Forklifts	0	6.00	89	0.20
C738 - Conductor/Cable Installation/Removal	Forklifts	0	6.00	89	0.20
TL674A - Pole Installation	Forklifts	0	6.00	89	0.20
TL674A - Underground Cable Installation	Forklifts	0	6.00	89	0.20
TL674A - Reconfigure Tap	Forklifts	0	6.00	89	0.20
TL666D - General	Forklifts	0	6.00	89	0.20
TL666D - Conductor Removal	Forklifts	0	6.00	89	0.20
TL666D - Pole Removal/Modification	Forklifts	0	6.00	89	0.20
C510 - General	Forklifts	0	6.00	89	0.20
C510 - Foundation Installation	Forklifts	0	6.00	89	0.20
C510 - Pole Installation/Removal	Forklifts	0	6.00	89	0.20
C738 - General	Forklifts	0	6.00	89	0.20
C738 - Pole Installation and Removal	Forklifts	0	6.00	89	0.20
C510 - Conductor/Cable Installation/Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C738 - Conductor/Cable Installation/Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL674A - Pole Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL666D - General	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL666D - Conductor Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL666D - Pole Removal/Modification	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C510 - General	Tractors/Loaders/Backhoes	0	8.00	97	0.37

C510 - Foundation Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C510 - Pole Installation/Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C738 - General	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C738 - Pole Installation and Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C738 - Duct Bank	Cranes	1	4.00	226	0.29
C738 - Duct Bank	Tractors/Loaders/Backhoes	1	8.00	97	0.37
C738 - Duct Bank	Bore/Drill Rigs	1	6.00	205	0.50
C738 - Duct Bank	Plate Compactors	2	8.00	8	0.43
C510 - General	Air Compressors	1	4.00	78	0.48
C510 - Foundation Installation	Cranes	1	6.00	226	0.29
C510 - Foundation Installation	Bore/Drill Rigs	1	6.00	205	0.50
C510 - Foundation Installation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
C510 - Foundation Installation	Plate Compactors	1	5.00	8	0.43
C510 - Pole Installation/Removal	Cranes	1	6.00	226	0.29
C510 - Pole Installation/Removal	Bore/Drill Rigs	2	5.00	205	0.50
C510 - Pole Installation/Removal	Cranes	2	5.00	226	0.29
C510 - Pole Installation/Removal	Tractors/Loaders/Backhoes	1	5.00	97	0.37
C510 - Pole Installation/Removal	Rollers	1	5.00	80	0.38
C510 - Pole Installation/Removal	Concrete/Industrial Saws	2	2.00	81	0.73
C510 - Pole Installation/Removal	Air Compressors	4	4.00	78	0.48
C510 - Pole Installation/Removal	Aerial Lifts	2	8.00	62	0.31
C510 - Pole Installation/Removal	Plate Compactors	1	5.00	8	0.43
C738 - General	Air Compressors	1	4.00	78	0.48
C738 - Pole Installation and Removal	Cranes	1	6.00	226	0.29
C738 - Pole Installation and Removal	Bore/Drill Rigs	2	5.00	205	0.50
C738 - Pole Installation and Removal	Cranes	2	5.00	226	0.29
C738 - Pole Installation and Removal	Tractors/Loaders/Backhoes	1	5.00	97	0.37
C738 - Pole Installation and Removal	Rollers	1	5.00	80	0.38

C738 - Pole Installation and Removal	Concrete/Industrial Saws	2	2.00	81	0.73
C738 - Pole Installation and Removal	Air Compressors	4	4.00	78	0.48
C738 - Pole Installation and Removal	Aerial Lifts	2	8.00	62	0.31
C738 - Pole Installation and Removal	Plate Compactors	1	5.00	8	0.43
TL674A - Duct Bank	Cranes	1	4.00	226	0.29
TL674A - Duct Bank	Tractors/Loaders/Backhoes	1	8.00	97	0.37
TL674A - Duct Bank	Bore/Drill Rigs	1	6.00	205	0.50
TL674A - Duct Bank	Plate Compactors	2	8.00	8	0.43
C510 - Duct Bank	Cranes	1	4.00	226	0.29
C510 - Duct Bank	Tractors/Loaders/Backhoes	1	8.00	97	0.37
C510 - Duct Bank	Bore/Drill Rigs	1	6.00	205	0.50
C510 - Duct Bank	Plate Compactors	2	8.00	8	0.43
TL674A - Foundation Installation	Cranes	1	6.00	226	0.29
TL674A - Foundation Installation	Bore/Drill Rigs	1	6.00	205	0.50

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
TL674A - General	0	15.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - Conductor/Cable Installation	0	20.00	2.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C738 - Conductor/Cable Installation	0	20.00	3.00	1.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Pole Installation	0	6.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Underground Cable Installation	0	12.00	2.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Reconfigure Tap	0	6.00	2.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL666D - General	0	9.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL666D - Conductor Removal	0	6.00	2.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL666D - Pole Removal/Modification	0	6.00	3.00	2.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - General	0	9.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - Foundation Installation	0	20.00	2.00	6.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - Pole Installation/Removal	0	20.00	3.00	1.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C738 - General	0	23.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C738 - Pole Installation and Removal	0	20.00	3.00	1.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Foundation Installation	0	12.00	2.00	10.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C738 - Duct Bank	0	20.00	2.00	26.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Duct Bank	0	12.00	2.00	568.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - Duct Bank	0	20.00	2.00	132.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 C738 - Duct Bank - 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	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437		1,301.1680	1,301.1680	0.3970		1,309.5053
Total	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437		1,301.1680	1,301.1680	0.3970		1,309.5053

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0214	0.2883	0.2027	1.0700e-003	0.8752	4.7100e-003	0.8799	0.0916	4.3300e-003	0.0960		102.5453	102.5453	7.1000e-004		102.5602
Vendor	0.0345	0.4210	0.2271	1.9100e-003	2.4292	9.7700e-003	2.4389	0.2570	8.9900e-003	0.2660		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1484	0.9223	2.6864	0.0105	3.9123	0.0183	3.9306	0.5098	0.0169	0.5267		848.0372	848.0372	0.0264		848.5917

3.2 C738 - Duct Bank - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437	0.0000	1,301.1680	1,301.1680	0.3970		1,309.5053
Total	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437	0.0000	1,301.1680	1,301.1680	0.3970		1,309.5053

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0214	0.2883	0.2027	1.0700e-003	0.2591	4.7100e-003	0.2638	0.0301	4.3300e-003	0.0345		102.5453	102.5453	7.1000e-004		102.5602
Vendor	0.0345	0.4210	0.2271	1.9100e-003	0.7231	9.7700e-003	0.7329	0.0866	8.9900e-003	0.0956		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1484	0.9223	2.6864	0.0105	1.5902	0.0183	1.6085	0.2780	0.0169	0.2949		848.0372	848.0372	0.0264		848.5917

3.3 C510 - General - 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	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648
Total	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	0.6315	0.3406	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3989		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0416	0.0958	1.0155	3.4000e-003	0.2736	1.7400e-003	0.2753	0.0725	1.6100e-003	0.0742		253.0878	253.0878	0.0111		253.3204
Total	0.0934	0.7273	1.3561	6.2600e-003	3.9173	0.0164	3.9337	0.4580	0.0151	0.4731		527.6998	527.6998	0.0127		527.9664

3.3 C510 - General - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858	0.0000	187.6320	187.6320	0.0159		187.9648
Total	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858	0.0000	187.6320	187.6320	0.0159		187.9648

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	0.6315	0.3406	2.8600e-003	1.0847	0.0147	1.0993	0.1300	0.0135	0.1434		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0416	0.0958	1.0155	3.4000e-003	0.2736	1.7400e-003	0.2753	0.0725	1.6100e-003	0.0742		253.0878	253.0878	0.0111		253.3204
Total	0.0934	0.7273	1.3561	6.2600e-003	1.3583	0.0164	1.3747	0.2025	0.0151	0.2176		527.6998	527.6998	0.0127		527.9664

3.4 C510 - Foundation 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	0.7639	8.8862	4.9791	0.0134		0.3828	0.3828		0.3527	0.3527		1,316.4371	1,316.4371	0.4119		1,325.0875
Total	0.7639	8.8862	4.9791	0.0134		0.3828	0.3828		0.3527	0.3527		1,316.4371	1,316.4371	0.4119		1,325.0875

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.9400e-003	0.0665	0.0468	2.5000e-004	0.2020	1.0900e-003	0.2030	0.0212	1.0000e-003	0.0222		23.6643	23.6643	1.6000e-004		23.6677
Vendor	0.0345	0.4210	0.2271	1.9100e-003	2.4292	9.7700e-003	2.4389	0.2570	8.9900e-003	0.2660		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1319	0.7005	2.5305	9.7100e-003	3.2391	0.0147	3.2538	0.4393	0.0136	0.4529		769.1562	769.1562	0.0259		769.6992

3.4 C510 - Foundation Installation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7639	8.8862	4.9791	0.0134		0.3828	0.3828		0.3527	0.3527	0.0000	1,316.437 1	1,316.437 1	0.4119		1,325.087 5
Total	0.7639	8.8862	4.9791	0.0134		0.3828	0.3828		0.3527	0.3527	0.0000	1,316.437 1	1,316.437 1	0.4119		1,325.087 5

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.9400e-003	0.0665	0.0468	2.5000e-004	0.0598	1.0900e-003	0.0609	6.9600e-003	1.0000e-003	7.9600e-003		23.6643	23.6643	1.6000e-004		23.6677
Vendor	0.0345	0.4210	0.2271	1.9100e-003	0.7231	9.7700e-003	0.7329	0.0866	8.9900e-003	0.0956		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1319	0.7005	2.5305	9.7100e-003	1.3909	0.0147	1.4056	0.2548	0.0136	0.2684		769.1562	769.1562	0.0259		769.6992

3.5 C510 - Pole Installation/Removal - 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	2.6440	27.0817	18.5584	0.0404		1.3063	1.3063		1.2390	1.2390		3,942.9700	3,942.9700	0.9960		3,963.8853
Total	2.6440	27.0817	18.5584	0.0404		1.3063	1.3063		1.2390	1.2390		3,942.9700	3,942.9700	0.9960		3,963.8853

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4000e-004	5.8700e-003	4.1300e-003	2.0000e-005	0.0178	1.0000e-004	0.0179	1.8700e-003	9.0000e-005	1.9500e-003		2.0880	2.0880	1.0000e-005		2.0883
Vendor	0.0517	0.6315	0.3406	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3989		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1447	0.8503	2.6014	0.0104	4.2695	0.0186	4.2881	0.5485	0.0172	0.5656		839.1173	839.1173	0.0263		839.6685

3.5 C510 - Pole Installation/Removal - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6440	27.0817	18.5584	0.0404		1.3063	1.3063		1.2390	1.2390	0.0000	3,942.9700	3,942.9700	0.9960		3,963.8853
Total	2.6440	27.0817	18.5584	0.0404		1.3063	1.3063		1.2390	1.2390	0.0000	3,942.9700	3,942.9700	0.9960		3,963.8853

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4000e-004	5.8700e-003	4.1300e-003	2.0000e-005	5.2800e-003	1.0000e-004	5.3700e-003	6.1000e-004	9.0000e-005	7.0000e-004		2.0880	2.0880	1.0000e-005		2.0883
Vendor	0.0517	0.6315	0.3406	2.8600e-003	1.0847	0.0147	1.0993	0.1300	0.0135	0.1434		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1447	0.8503	2.6014	0.0104	1.6979	0.0186	1.7165	0.2918	0.0172	0.3089		839.1173	839.1173	0.0263		839.6685

3.6 C738 - General - 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	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648
Total	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	0.6315	0.3406	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3989		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.1064	0.2449	2.5952	8.6900e-003	0.6992	4.4400e-003	0.7036	0.1854	4.1200e-003	0.1895		646.7798	646.7798	0.0283		647.3743
Total	0.1581	0.8764	2.9357	0.0116	4.3429	0.0191	4.3620	0.5708	0.0176	0.5884		921.3918	921.3918	0.0299		922.0203

3.6 C738 - General - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858	0.0000	187.6320	187.6320	0.0159		187.9648
Total	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858	0.0000	187.6320	187.6320	0.0159		187.9648

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	0.6315	0.3406	2.8600e-003	1.0847	0.0147	1.0993	0.1300	0.0135	0.1434		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.1064	0.2449	2.5952	8.6900e-003	0.6992	4.4400e-003	0.7036	0.1854	4.1200e-003	0.1895		646.7798	646.7798	0.0283		647.3743
Total	0.1581	0.8764	2.9357	0.0116	1.7838	0.0191	1.8029	0.3153	0.0176	0.3329		921.3918	921.3918	0.0299		922.0203

3.7 C738 - Pole Installation and Removal - 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	2.6363	26.9947	18.5076	0.0403		1.3019	1.3019		1.2349	1.2349		3,936.2938	3,936.2938	0.9939		3,957.1648
Total	2.6363	26.9947	18.5076	0.0403		1.3019	1.3019		1.2349	1.2349		3,936.2938	3,936.2938	0.9939		3,957.1648

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.2000e-004	0.0111	7.8000e-003	4.0000e-005	0.0337	1.8000e-004	0.0338	3.5200e-003	1.7000e-004	3.6900e-003		3.9441	3.9441	3.0000e-005		3.9446
Vendor	0.0517	0.6315	0.3406	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3989		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1451	0.8555	2.6051	0.0105	4.2854	0.0187	4.3041	0.5502	0.0172	0.5674		840.9733	840.9733	0.0263		841.5248

3.7 C738 - Pole Installation and Removal - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6363	26.9947	18.5076	0.0403		1.3019	1.3019		1.2349	1.2349	0.0000	3,936.2938	3,936.2938	0.9939		3,957.1648
Total	2.6363	26.9947	18.5076	0.0403		1.3019	1.3019		1.2349	1.2349	0.0000	3,936.2938	3,936.2938	0.9939		3,957.1648

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.2000e-004	0.0111	7.8000e-003	4.0000e-005	9.9600e-003	1.8000e-004	0.0102	1.1600e-003	1.7000e-004	1.3300e-003		3.9441	3.9441	3.0000e-005		3.9446
Vendor	0.0517	0.6315	0.3406	2.8600e-003	1.0847	0.0147	1.0993	0.1300	0.0135	0.1434		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1451	0.8555	2.6051	0.0105	1.7026	0.0187	1.7213	0.2923	0.0172	0.3095		840.9733	840.9733	0.0263		841.5248

3.8 TL674A - Duct Bank - 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	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437		1,301.1680	1,301.1680	0.3970		1,309.5053
Total	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437		1,301.1680	1,301.1680	0.3970		1,309.5053

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1227	1.6510	1.1607	6.1000e-003	5.0117	0.0270	5.0386	0.5248	0.0248	0.5496		587.2419	587.2419	4.0700e-003		587.3273
Vendor	0.0345	0.4210	0.2271	1.9100e-003	2.4292	9.7700e-003	2.4389	0.2570	8.9900e-003	0.2660		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0555	0.1278	1.3540	4.5300e-003	0.3648	2.3200e-003	0.3671	0.0967	2.1500e-003	0.0989		337.4503	337.4503	0.0148		337.7605
Total	0.2127	2.1998	2.7417	0.0125	7.8056	0.0391	7.8447	0.8785	0.0360	0.9144		1,107.7669	1,107.7669	0.0199		1,108.1852

3.8 TL674A - Duct Bank - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437	0.0000	1,301.1680	1,301.1680	0.3970		1,309.5053
Total	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437	0.0000	1,301.1680	1,301.1680	0.3970		1,309.5053

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1227	1.6510	1.1607	6.1000e-003	1.4836	0.0270	1.5106	0.1726	0.0248	0.1974		587.2419	587.2419	4.0700e-003		587.3273
Vendor	0.0345	0.4210	0.2271	1.9100e-003	0.7231	9.7700e-003	0.7329	0.0866	8.9900e-003	0.0956		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0555	0.1278	1.3540	4.5300e-003	0.3648	2.3200e-003	0.3671	0.0967	2.1500e-003	0.0989		337.4503	337.4503	0.0148		337.7605
Total	0.2127	2.1998	2.7417	0.0125	2.5715	0.0391	2.6106	0.3560	0.0360	0.3919		1,107.7669	1,107.7669	0.0199		1,108.1852

3.9 C510 - Duct Bank - 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	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437		1,301.1680	1,301.1680	0.3970		1,309.5053
Total	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437		1,301.1680	1,301.1680	0.3970		1,309.5053

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0683	0.9191	0.6461	3.4000e-003	2.7898	0.0150	2.8048	0.2922	0.0138	0.3060		326.8974	326.8974	2.2600e-003		326.9449
Vendor	0.0345	0.4210	0.2271	1.9100e-003	2.4292	9.7700e-003	2.4389	0.2570	8.9900e-003	0.2660		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1953	1.5530	3.1298	0.0129	5.8269	0.0286	5.8556	0.7103	0.0264	0.7367		1,072.3893	1,072.3893	0.0280		1,072.9764

3.9 C510 - Duct Bank - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437	0.0000	1,301.1680	1,301.1680	0.3970		1,309.5053
Total	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437	0.0000	1,301.1680	1,301.1680	0.3970		1,309.5053

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0683	0.9191	0.6461	3.4000e-003	0.8259	0.0150	0.8409	0.0961	0.0138	0.1099		326.8974	326.8974	2.2600e-003		326.9449
Vendor	0.0345	0.4210	0.2271	1.9100e-003	0.7231	9.7700e-003	0.7329	0.0866	8.9900e-003	0.0956		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1953	1.5530	3.1298	0.0129	2.1570	0.0286	2.1856	0.3439	0.0264	0.3703		1,072.3893	1,072.3893	0.0280		1,072.9764

3.10 TL674A - Foundation 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	0.7567	8.8316	4.9419	0.0133		0.3803	0.3803		0.3502	0.3502		1,311.6715	1,311.6715	0.4113		1,320.3095
Total	0.7567	8.8316	4.9419	0.0133		0.3803	0.3803		0.3502	0.3502		1,311.6715	1,311.6715	0.4113		1,320.3095

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4700e-003	0.0333	0.0234	1.2000e-004	0.1010	5.4000e-004	0.1015	0.0106	5.0000e-004	0.0111		11.8321	11.8321	8.0000e-005		11.8339
Vendor	0.0345	0.4210	0.2271	1.9100e-003	2.4292	9.7700e-003	2.4389	0.2570	8.9900e-003	0.2660		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0555	0.1278	1.3540	4.5300e-003	0.3648	2.3200e-003	0.3671	0.0967	2.1500e-003	0.0989		337.4503	337.4503	0.0148		337.7605
Total	0.0925	0.5820	1.6044	6.5600e-003	2.8949	0.0126	2.9075	0.3642	0.0116	0.3759		532.3572	532.3572	0.0159		532.6917

3.10 TL674A - Foundation Installation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7567	8.8316	4.9419	0.0133		0.3803	0.3803		0.3502	0.3502	0.0000	1,311.6715	1,311.6715	0.4113		1,320.3095
Total	0.7567	8.8316	4.9419	0.0133		0.3803	0.3803		0.3502	0.3502	0.0000	1,311.6715	1,311.6715	0.4113		1,320.3095

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4700e-003	0.0333	0.0234	1.2000e-004	0.0299	5.4000e-004	0.0304	3.4800e-003	5.0000e-004	3.9800e-003		11.8321	11.8321	8.0000e-005		11.8339
Vendor	0.0345	0.4210	0.2271	1.9100e-003	0.7231	9.7700e-003	0.7329	0.0866	8.9900e-003	0.0956		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0555	0.1278	1.3540	4.5300e-003	0.3648	2.3200e-003	0.3671	0.0967	2.1500e-003	0.0989		337.4503	337.4503	0.0148		337.7605
Total	0.0925	0.5820	1.6044	6.5600e-003	1.1178	0.0126	1.1304	0.1868	0.0116	0.1985		532.3572	532.3572	0.0159		532.6917

3.11 TL674A - General - 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	0.3553	2.4472	2.4551	3.9600e-003		0.1717	0.1717		0.1717	0.1717		375.2641	375.2641	0.0317		375.9297
Total	0.3553	2.4472	2.4551	3.9600e-003		0.1717	0.1717		0.1717	0.1717		375.2641	375.2641	0.0317		375.9297

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	0.6315	0.3406	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3989		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0694	0.1597	1.6925	5.6600e-003	0.4560	2.9000e-003	0.4589	0.1209	2.6900e-003	0.1236		421.8129	421.8129	0.0185		422.2006
Total	0.1211	0.7912	2.0331	8.5200e-003	4.0997	0.0176	4.1173	0.5063	0.0162	0.5225		696.4249	696.4249	0.0201		696.8466

3.11 TL674A - General - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3553	2.4472	2.4551	3.9600e-003		0.1717	0.1717		0.1717	0.1717	0.0000	375.2641	375.2641	0.0317		375.9297
Total	0.3553	2.4472	2.4551	3.9600e-003		0.1717	0.1717		0.1717	0.1717	0.0000	375.2641	375.2641	0.0317		375.9297

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	0.6315	0.3406	2.8600e-003	1.0847	0.0147	1.0993	0.1300	0.0135	0.1434		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0694	0.1597	1.6925	5.6600e-003	0.4560	2.9000e-003	0.4589	0.1209	2.6900e-003	0.1236		421.8129	421.8129	0.0185		422.2006
Total	0.1211	0.7912	2.0331	8.5200e-003	1.5407	0.0176	1.5582	0.2509	0.0162	0.2670		696.4249	696.4249	0.0201		696.8466

3.12 C510 - Conductor/Cable Installation/Removal - 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	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0345	0.4210	0.2271	1.9100e-003	2.4292	9.7700e-003	2.4389	0.2570	8.9900e-003	0.2660		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1270	0.6340	2.4837	9.4600e-003	3.0371	0.0136	3.0508	0.4182	0.0126	0.4307		745.4919	745.4919	0.0257		746.0315

3.12 C510 - Conductor/Cable Installation/Removal - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0345	0.4210	0.2271	1.9100e-003	0.7231	9.7700e-003	0.7329	0.0866	8.9900e-003	0.0956		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1270	0.6340	2.4837	9.4600e-003	1.3311	0.0136	1.3447	0.2478	0.0126	0.2604		745.4919	745.4919	0.0257		746.0315

3.13 C738 - Conductor/Cable Installation/Removal - 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	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.9000e-004	0.0120	8.4200e-003	4.0000e-005	0.0364	2.0000e-004	0.0366	3.8100e-003	1.8000e-004	3.9900e-003		4.2596	4.2596	3.0000e-005		4.2602
Vendor	0.0517	0.6315	0.3406	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3989		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1451	0.8564	2.6057	0.0105	4.2881	0.0187	4.3068	0.5504	0.0172	0.5677		841.2888	841.2888	0.0263		841.8404

3.13 C738 - Conductor/Cable Installation/Removal - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.9000e-004	0.0120	8.4200e-003	4.0000e-005	0.0108	2.0000e-004	0.0110	1.2500e-003	1.8000e-004	1.4300e-003		4.2596	4.2596	3.0000e-005		4.2602
Vendor	0.0517	0.6315	0.3406	2.8600e-003	1.0847	0.0147	1.0993	0.1300	0.0135	0.1434		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0925	0.2130	2.2567	7.5500e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		562.4172	562.4172	0.0246		562.9342
Total	0.1451	0.8564	2.6057	0.0105	1.7034	0.0187	1.7221	0.2924	0.0172	0.3096		841.2888	841.2888	0.0263		841.8404

3.14 TL674A - Pole 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	0.4471	5.7111	3.8099	7.4900e-003		0.2183	0.2183		0.2009	0.2009		741.6792	741.6792	0.2347		746.6070
Total	0.4471	5.7111	3.8099	7.4900e-003		0.2183	0.2183		0.2009	0.2009		741.6792	741.6792	0.2347		746.6070

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	0.6315	0.3406	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3989		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0278	0.0639	0.6770	2.2700e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		168.7252	168.7252	7.3800e-003		168.8803
Total	0.0795	0.6954	1.0176	5.1300e-003	3.8261	0.0158	3.8419	0.4338	0.0146	0.4484		443.3372	443.3372	9.0000e-003		443.5263

3.14 TL674A - Pole Installation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4471	5.7111	3.8099	7.4900e-003		0.2183	0.2183		0.2009	0.2009	0.0000	741.6792	741.6792	0.2347		746.6070
Total	0.4471	5.7111	3.8099	7.4900e-003		0.2183	0.2183		0.2009	0.2009	0.0000	741.6792	741.6792	0.2347		746.6070

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	0.6315	0.3406	2.8600e-003	1.0847	0.0147	1.0993	0.1300	0.0135	0.1434		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0278	0.0639	0.6770	2.2700e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		168.7252	168.7252	7.3800e-003		168.8803
Total	0.0795	0.6954	1.0176	5.1300e-003	1.2671	0.0158	1.2829	0.1783	0.0146	0.1929		443.3372	443.3372	9.0000e-003		443.5263

3.15 TL674A - Underground 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	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0345	0.4210	0.2271	1.9100e-003	2.4292	9.7700e-003	2.4389	0.2570	8.9900e-003	0.2660		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0555	0.1278	1.3540	4.5300e-003	0.3648	2.3200e-003	0.3671	0.0967	2.1500e-003	0.0989		337.4503	337.4503	0.0148		337.7605
Total	0.0900	0.5488	1.5811	6.4400e-003	2.7939	0.0121	2.8060	0.3537	0.0111	0.3648		520.5250	520.5250	0.0159		520.8578

3.15 TL674A - Underground Cable Installation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0345	0.4210	0.2271	1.9100e-003	0.7231	9.7700e-003	0.7329	0.0866	8.9900e-003	0.0956		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0555	0.1278	1.3540	4.5300e-003	0.3648	2.3200e-003	0.3671	0.0967	2.1500e-003	0.0989		337.4503	337.4503	0.0148		337.7605
Total	0.0900	0.5488	1.5811	6.4400e-003	1.0879	0.0121	1.1000	0.1834	0.0111	0.1945		520.5250	520.5250	0.0159		520.8578

3.16 TL674A - Reconfigure Tap - 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	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0345	0.4210	0.2271	1.9100e-003	2.4292	9.7700e-003	2.4389	0.2570	8.9900e-003	0.2660		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0278	0.0639	0.6770	2.2700e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		168.7252	168.7252	7.3800e-003		168.8803
Total	0.0622	0.4849	0.9041	4.1800e-003	2.6115	0.0109	2.6225	0.3053	0.0101	0.3154		351.7998	351.7998	8.4600e-003		351.9776

3.16 TL674A - Reconfigure Tap - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0345	0.4210	0.2271	1.9100e-003	0.7231	9.7700e-003	0.7329	0.0866	8.9900e-003	0.0956		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0278	0.0639	0.6770	2.2700e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		168.7252	168.7252	7.3800e-003		168.8803
Total	0.0622	0.4849	0.9041	4.1800e-003	0.9055	0.0109	0.9164	0.1350	0.0101	0.1451		351.7998	351.7998	8.4600e-003		351.9776

3.17 TL666D - General - 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	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648
Total	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	0.6315	0.3406	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3989		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0416	0.0958	1.0155	3.4000e-003	0.2736	1.7400e-003	0.2753	0.0725	1.6100e-003	0.0742		253.0878	253.0878	0.0111		253.3204
Total	0.0934	0.7273	1.3561	6.2600e-003	3.9173	0.0164	3.9337	0.4580	0.0151	0.4731		527.6998	527.6998	0.0127		527.9664

3.17 TL666D - General - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858	0.0000	187.6320	187.6320	0.0159		187.9648
Total	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858	0.0000	187.6320	187.6320	0.0159		187.9648

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0517	0.6315	0.3406	2.8600e-003	1.0847	0.0147	1.0993	0.1300	0.0135	0.1434		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0416	0.0958	1.0155	3.4000e-003	0.2736	1.7400e-003	0.2753	0.0725	1.6100e-003	0.0742		253.0878	253.0878	0.0111		253.3204
Total	0.0934	0.7273	1.3561	6.2600e-003	1.3583	0.0164	1.3747	0.2025	0.0151	0.2176		527.6998	527.6998	0.0127		527.9664

3.18 TL666D - Conductor Removal - 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	2.1845	24.2138	19.5252	0.0292		1.2190	1.2190		1.1215	1.1215		2,895.6034	2,895.6034	0.9161		2,914.8423
Total	2.1845	24.2138	19.5252	0.0292		1.2190	1.2190		1.1215	1.1215		2,895.6034	2,895.6034	0.9161		2,914.8423

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0345	0.4210	0.2271	1.9100e-003	2.4292	9.7700e-003	2.4389	0.2570	8.9900e-003	0.2660		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0278	0.0639	0.6770	2.2700e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		168.7252	168.7252	7.3800e-003		168.8803
Total	0.0622	0.4849	0.9041	4.1800e-003	2.6115	0.0109	2.6225	0.3053	0.0101	0.3154		351.7998	351.7998	8.4600e-003		351.9776

3.18 TL666D - Conductor Removal - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1845	24.2138	19.5252	0.0292		1.2190	1.2190		1.1215	1.1215	0.0000	2,895.6034	2,895.6034	0.9161		2,914.8423
Total	2.1845	24.2138	19.5252	0.0292		1.2190	1.2190		1.1215	1.1215	0.0000	2,895.6034	2,895.6034	0.9161		2,914.8423

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0345	0.4210	0.2271	1.9100e-003	0.7231	9.7700e-003	0.7329	0.0866	8.9900e-003	0.0956		183.0747	183.0747	1.0800e-003		183.0973
Worker	0.0278	0.0639	0.6770	2.2700e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		168.7252	168.7252	7.3800e-003		168.8803
Total	0.0622	0.4849	0.9041	4.1800e-003	0.9055	0.0109	0.9164	0.1350	0.0101	0.1451		351.7998	351.7998	8.4600e-003		351.9776

3.19 TL666D - Pole Removal/Modification - 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	2.4965	25.6119	17.3306	0.0387		1.2110	1.2110		1.1513	1.1513		3,776.0416	3,776.0416	0.9432		3,795.8478
Total	2.4965	25.6119	17.3306	0.0387		1.2110	1.2110		1.1513	1.1513		3,776.0416	3,776.0416	0.9432		3,795.8478

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1100e-003	0.0150	0.0105	6.0000e-005	0.0454	2.4000e-004	0.0457	4.7600e-003	2.2000e-004	4.9800e-003		5.3245	5.3245	4.0000e-005		5.3252
Vendor	0.0517	0.6315	0.3406	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3989		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0278	0.0639	0.6770	2.2700e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		168.7252	168.7252	7.3800e-003		168.8803
Total	0.0806	0.7103	1.0281	5.1900e-003	3.8716	0.0161	3.8876	0.4386	0.0148	0.4533		448.6616	448.6616	9.0400e-003		448.8515

3.19 TL666D - Pole Removal/Modification - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4965	25.6119	17.3306	0.0387		1.2110	1.2110		1.1513	1.1513	0.0000	3,776.0416	3,776.0416	0.9432		3,795.8478
Total	2.4965	25.6119	17.3306	0.0387		1.2110	1.2110		1.1513	1.1513	0.0000	3,776.0416	3,776.0416	0.9432		3,795.8478

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1100e-003	0.0150	0.0105	6.0000e-005	0.0135	2.4000e-004	0.0137	1.5600e-003	2.2000e-004	1.7900e-003		5.3245	5.3245	4.0000e-005		5.3252
Vendor	0.0517	0.6315	0.3406	2.8600e-003	1.0847	0.0147	1.0993	0.1300	0.0135	0.1434		274.6120	274.6120	1.6200e-003		274.6460
Worker	0.0278	0.0639	0.6770	2.2700e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		168.7252	168.7252	7.3800e-003		168.8803
Total	0.0806	0.7103	1.0281	5.1900e-003	1.2805	0.0161	1.2966	0.1799	0.0148	0.1947		448.6616	448.6616	9.0400e-003		448.8515

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Total					

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

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

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	0.0000					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

6.2 Area by SubCategory

Unmitigated

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

6.2 Area by SubCategory

Mitigated

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

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

TL674A Reconfiguration & TL666D Removal Project
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project is located in San Diego County

Land Use - No land uses are being constructed.

Construction Phase - Schedule taken from Chapter 3 - Project Description

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description

On-road Fugitive Dust - Worker trips assumed to be 100-percent paved, all other trips assumed to be 98-percent paved

Energy Use -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	53.00

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	PhaseEndDate	5/16/2019	11/2/2019
tblConstructionPhase	PhaseEndDate	7/6/2019	5/17/2019
tblConstructionPhase	PhaseEndDate	11/9/2019	11/10/2019
tblConstructionPhase	PhaseEndDate	6/20/2019	6/1/2019
tblConstructionPhase	PhaseEndDate	1/3/2020	11/2/2019
tblConstructionPhase	PhaseEndDate	2/24/2020	11/11/2019
tblConstructionPhase	PhaseEndDate	1/4/2020	12/31/2019
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tblConstructionPhase	PhaseEndDate	5/16/2019	4/15/2019
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tblConstructionPhase	PhaseEndDate	5/16/2019	2/20/2019
tblConstructionPhase	PhaseEndDate	4/20/2019	3/20/2019
tblConstructionPhase	PhaseEndDate	1/9/2020	4/15/2019
tblConstructionPhase	PhaseEndDate	5/14/2019	3/15/2019
tblConstructionPhase	PhaseEndDate	4/16/2019	2/20/2019
tblConstructionPhase	PhaseEndDate	5/14/2019	3/15/2019
tblConstructionPhase	PhaseStartDate	3/16/2019	9/3/2019
tblConstructionPhase	PhaseStartDate	3/24/2019	2/2/2019
tblConstructionPhase	PhaseStartDate	11/3/2019	11/4/2019
tblConstructionPhase	PhaseStartDate	2/21/2019	2/2/2019
tblConstructionPhase	PhaseStartDate	11/3/2019	9/3/2019
tblConstructionPhase	PhaseStartDate	5/18/2019	2/2/2019
tblConstructionPhase	PhaseStartDate	11/11/2019	11/6/2019

tblConstructionPhase	PhaseStartDate	1/1/2020	11/6/2019
tblConstructionPhase	PhaseStartDate	12/7/2019	11/15/2019
tblConstructionPhase	PhaseStartDate	2/21/2019	1/20/2019
tblConstructionPhase	PhaseStartDate	6/2/2019	2/2/2019
tblConstructionPhase	PhaseStartDate	4/16/2019	1/20/2019
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tblConstructionPhase	PhaseStartDate	11/12/2019	2/15/2019
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tblConstructionPhase	PhaseStartDate	3/16/2019	1/20/2019
tblConstructionPhase	PhaseStartDate	4/16/2019	2/15/2019
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tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.37	0.37
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tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.37	0.37
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tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.37	0.37

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tbloffRoadEquipment	LoadFactor	0.31	0.31
tbloffRoadEquipment	LoadFactor	0.42	0.42
tbloffRoadEquipment	LoadFactor	0.31	0.31
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tbloffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tbloffRoadEquipment	OffRoadEquipmentType		Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType		Cranes
tbloffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tbloffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tbloffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tbloffRoadEquipment	OffRoadEquipmentType		Cranes
tbloffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs

tbloffRoadEquipment	OffRoadEquipmentType	Cranes
tbloffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes
tbloffRoadEquipment	OffRoadEquipmentType	Rollers
tbloffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws
tbloffRoadEquipment	OffRoadEquipmentType	Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType	Aerial Lifts
tbloffRoadEquipment	OffRoadEquipmentType	Plate Compactors
tbloffRoadEquipment	OffRoadEquipmentType	Air Compressors
tbloffRoadEquipment	OffRoadEquipmentType	Cranes
tbloffRoadEquipment	OffRoadEquipmentType	Bore/Drill Rigs
tbloffRoadEquipment	OffRoadEquipmentType	Cranes
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tbloffRoadEquipment	OffRoadEquipmentType	Rollers
tbloffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws
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tbloffRoadEquipment	OffRoadEquipmentType	Plate Compactors
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tbloffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes
tbloffRoadEquipment	OffRoadEquipmentType	Bore/Drill Rigs
tbloffRoadEquipment	OffRoadEquipmentType	Plate Compactors
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tbloffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes
tbloffRoadEquipment	OffRoadEquipmentType	Bore/Drill Rigs
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tbloffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes

tbloffRoadEquipment	OffRoadEquipmentType		Plate Compactors
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tbloffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
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tbloffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
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tbloffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
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tbloffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
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tblOffRoadEquipment	UsageHours	4.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	4.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	4.00	6.00

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tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	PhaseName		TL674A - General
tblTripsAndVMT	PhaseName		C510 - Conductor/Cable Installation/Removal
tblTripsAndVMT	PhaseName		C738 - Conductor/Cable Installation/Removal
tblTripsAndVMT	PhaseName		TL674A - Pole Installation
tblTripsAndVMT	PhaseName		TL674A - Underground Cable Installation
tblTripsAndVMT	PhaseName		TL674A - Reconfigure Tap
tblTripsAndVMT	PhaseName		TL666D - General
tblTripsAndVMT	PhaseName		TL666D - Conductor Removal
tblTripsAndVMT	PhaseName		TL666D - Pole Removal/Modification
tblTripsAndVMT	PhaseName		C510 - General
tblTripsAndVMT	PhaseName		C510 - Foundation Installation
tblTripsAndVMT	PhaseName		C510 - Pole Installation/Removal
tblTripsAndVMT	PhaseName		C738 - General
tblTripsAndVMT	PhaseName		C738 - Pole Installation and Removal
tblTripsAndVMT	PhaseName		TL674A - Foundation Installation
tblTripsAndVMT	PhaseName		C738 - Duct Bank
tblTripsAndVMT	PhaseName		TL674A - Duct Bank
tblTripsAndVMT	PhaseName		C510 - Duct Bank
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00
tblTripsAndVMT	VendorTripLength	7.30	40.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	C738 - Duct Bank	Trenching	1/20/2019	2/20/2019	6	27	
2	C510 - General	Building Construction	1/20/2019	4/15/2019	6	73	
3	C510 - Foundation Installation	Building Construction	1/20/2019	2/20/2019	6	27	
4	C510 - Pole Installation/Removal	Building Construction	1/20/2019	3/20/2019	6	51	
5	C738 - General	Building Construction	1/20/2019	3/15/2019	6	47	
6	C738 - Pole Installation and Removal	Building Construction	1/20/2019	2/20/2019	6	27	
7	TL674A - Duct Bank	Trenching	2/2/2019	6/1/2019	6	103	
8	C510 - Duct Bank	Trenching	2/2/2019	3/23/2019	6	43	
9	TL674A - Foundation Installation	Building Construction	2/2/2019	5/17/2019	6	90	
10	TL674A - General	Building Construction	2/2/2019	11/11/2019	6	242	
11	C510 - Conductor/Cable Installation/Removal	Building Construction	2/15/2019	4/15/2019	6	51	
12	C738 - Conductor/Cable Installation/Removal	Building Construction	2/15/2019	3/15/2019	6	25	
13	TL674A - Pole Installation	Building Construction	9/3/2019	11/2/2019	6	53	
14	TL674A - Underground Cable Installation	Building Construction	9/3/2019	11/2/2019	6	53	
15	TL674A - Reconfigure Tap	Building Construction	11/4/2019	11/10/2019	6	6	
16	TL666D - General	Building Construction	11/6/2019	12/31/2019	6	48	
17	TL666D - Conductor Removal	Building Construction	11/6/2019	12/6/2019	6	27	
18	TL666D - Pole Removal/Modification	Building Construction	11/15/2019	12/31/2019	6	40	

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
TL674A - Foundation Installation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
TL674A - Foundation Installation	Plate Compactors	1	4.00	8	0.43
TL674A - General	Air Compressors	2	4.00	78	0.48
C510 - Conductor/Cable Installation/Removal	Aerial Lifts	2	6.00	62	0.31
C510 - Conductor/Cable Installation/Removal	Other Construction Equipment	2	8.00	171	0.42
C738 - Conductor/Cable Installation/Removal	Aerial Lifts	2	6.00	62	0.31
C738 - Conductor/Cable Installation/Removal	Other Construction Equipment	2	8.00	171	0.42
TL674A - Pole Installation	Cranes	1	6.00	226	0.29
TL674A - Pole Installation	Aerial Lifts	2	8.00	62	0.31
TL674A - Underground Cable Installation	Aerial Lifts	2	6.00	62	0.31
TL674A - Underground Cable Installation	Other Construction Equipment	2	8.00	171	0.42
TL674A - Reconfigure Tap	Aerial Lifts	2	6.00	62	0.31
TL674A - Reconfigure Tap	Other Construction Equipment	2	8.00	171	0.42
TL666D - General	Air Compressors	1	4.00	78	0.48
TL666D - Conductor Removal	Aerial Lifts	4	6.00	62	0.31
TL666D - Conductor Removal	Other Construction Equipment	4	8.00	171	0.42
TL666D - Pole Removal/Modification	Cranes	1	6.00	226	0.29
TL666D - Pole Removal/Modification	Bore/Drill Rigs	2	5.00	205	0.50
TL666D - Pole Removal/Modification	Cranes	2	5.00	226	0.29
TL666D - Pole Removal/Modification	Tractors/Loaders/Backhoes	1	5.00	97	0.37
TL666D - Pole Removal/Modification	Plate Compactors	1	5.00	8	0.43
TL666D - Pole Removal/Modification	Concrete/Industrial Saws	2	2.00	81	0.73

TL666D - Pole Removal/Modification	Air Compressors	4	4.00	78	0.48
TL666D - Pole Removal/Modification	Aerial Lifts	2	8.00	62	0.31
TL674A - Pole Installation	Air Compressors	0	6.00	78	0.48
TL674A - Underground Cable Installation	Cement and Mortar Mixers	0	6.00	9	0.56
TL674A - Reconfigure Tap	Concrete/Industrial Saws	0	8.00	81	0.73
TL674A - Duct Bank	Concrete/Industrial Saws	0	8.00	81	0.73
TL674A - Foundation Installation	Cranes	0	4.00	226	0.29
TL674A - Foundation Installation	Forklifts	0	6.00	89	0.20
TL674A - General	Graders	0	8.00	174	0.41
TL674A - Underground Cable Installation	Pavers	0	7.00	125	0.42
TL674A - Underground Cable Installation	Rollers	0	7.00	80	0.38
TL674A - Reconfigure Tap	Rubber Tired Dozers	0	1.00	255	0.40
TL674A - Duct Bank	Rubber Tired Dozers	0	1.00	255	0.40
TL674A - Foundation Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL674A - Reconfigure Tap	Tractors/Loaders/Backhoes	0	6.00	97	0.37
TL674A - Duct Bank	Tractors/Loaders/Backhoes	0	6.00	97	0.37
TL674A - Underground Cable Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
TL674A - General	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL674A - General	Cranes	0	4.00	226	0.29
C510 - Conductor/Cable Installation/Removal	Cranes	0	4.00	226	0.29
C738 - Conductor/Cable Installation/Removal	Cranes	0	4.00	226	0.29
TL674A - Pole Installation	Cranes	0	4.00	226	0.29
TL674A - Underground Cable Installation	Cranes	0	4.00	226	0.29
TL674A - Reconfigure Tap	Cranes	0	4.00	226	0.29
TL666D - General	Cranes	0	4.00	226	0.29
TL666D - Conductor Removal	Cranes	0	4.00	226	0.29

TL666D - Pole Removal/Modification	Cranes	0	4.00	226	0.29
C510 - General	Cranes	0	4.00	226	0.29
C510 - Foundation Installation	Cranes	0	4.00	226	0.29
C510 - Pole Installation/Removal	Cranes	0	4.00	226	0.29
C738 - General	Cranes	0	4.00	226	0.29
C738 - Pole Installation and Removal	Cranes	0	4.00	226	0.29
TL674A - General	Forklifts	0	6.00	89	0.20
C510 - Conductor/Cable Installation/Removal	Forklifts	0	6.00	89	0.20
C738 - Conductor/Cable Installation/Removal	Forklifts	0	6.00	89	0.20
TL674A - Pole Installation	Forklifts	0	6.00	89	0.20
TL674A - Underground Cable Installation	Forklifts	0	6.00	89	0.20
TL674A - Reconfigure Tap	Forklifts	0	6.00	89	0.20
TL666D - General	Forklifts	0	6.00	89	0.20
TL666D - Conductor Removal	Forklifts	0	6.00	89	0.20
TL666D - Pole Removal/Modification	Forklifts	0	6.00	89	0.20
C510 - General	Forklifts	0	6.00	89	0.20
C510 - Foundation Installation	Forklifts	0	6.00	89	0.20
C510 - Pole Installation/Removal	Forklifts	0	6.00	89	0.20
C738 - General	Forklifts	0	6.00	89	0.20
C738 - Pole Installation and Removal	Forklifts	0	6.00	89	0.20
C510 - Conductor/Cable Installation/Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C738 - Conductor/Cable Installation/Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL674A - Pole Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL666D - General	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL666D - Conductor Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL666D - Pole Removal/Modification	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C510 - General	Tractors/Loaders/Backhoes	0	8.00	97	0.37

C510 - Foundation Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C510 - Pole Installation/Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C738 - General	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C738 - Pole Installation and Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C738 - Duct Bank	Cranes	1	4.00	226	0.29
C738 - Duct Bank	Tractors/Loaders/Backhoes	1	8.00	97	0.37
C738 - Duct Bank	Bore/Drill Rigs	1	6.00	205	0.50
C738 - Duct Bank	Plate Compactors	2	8.00	8	0.43
C510 - General	Air Compressors	1	4.00	78	0.48
C510 - Foundation Installation	Cranes	1	6.00	226	0.29
C510 - Foundation Installation	Bore/Drill Rigs	1	6.00	205	0.50
C510 - Foundation Installation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
C510 - Foundation Installation	Plate Compactors	1	5.00	8	0.43
C510 - Pole Installation/Removal	Cranes	1	6.00	226	0.29
C510 - Pole Installation/Removal	Bore/Drill Rigs	2	5.00	205	0.50
C510 - Pole Installation/Removal	Cranes	2	5.00	226	0.29
C510 - Pole Installation/Removal	Tractors/Loaders/Backhoes	1	5.00	97	0.37
C510 - Pole Installation/Removal	Rollers	1	5.00	80	0.38
C510 - Pole Installation/Removal	Concrete/Industrial Saws	2	2.00	81	0.73
C510 - Pole Installation/Removal	Air Compressors	4	4.00	78	0.48
C510 - Pole Installation/Removal	Aerial Lifts	2	8.00	62	0.31
C510 - Pole Installation/Removal	Plate Compactors	1	5.00	8	0.43
C738 - General	Air Compressors	1	4.00	78	0.48
C738 - Pole Installation and Removal	Cranes	1	6.00	226	0.29
C738 - Pole Installation and Removal	Bore/Drill Rigs	2	5.00	205	0.50
C738 - Pole Installation and Removal	Cranes	2	5.00	226	0.29
C738 - Pole Installation and Removal	Tractors/Loaders/Backhoes	1	5.00	97	0.37
C738 - Pole Installation and Removal	Rollers	1	5.00	80	0.38

C738 - Pole Installation and Removal	Concrete/Industrial Saws	2	2.00	81	0.73
C738 - Pole Installation and Removal	Air Compressors	4	4.00	78	0.48
C738 - Pole Installation and Removal	Aerial Lifts	2	8.00	62	0.31
C738 - Pole Installation and Removal	Plate Compactors	1	5.00	8	0.43
TL674A - Duct Bank	Cranes	1	4.00	226	0.29
TL674A - Duct Bank	Tractors/Loaders/Backhoes	1	8.00	97	0.37
TL674A - Duct Bank	Bore/Drill Rigs	1	6.00	205	0.50
TL674A - Duct Bank	Plate Compactors	2	8.00	8	0.43
C510 - Duct Bank	Cranes	1	4.00	226	0.29
C510 - Duct Bank	Tractors/Loaders/Backhoes	1	8.00	97	0.37
C510 - Duct Bank	Bore/Drill Rigs	1	6.00	205	0.50
C510 - Duct Bank	Plate Compactors	2	8.00	8	0.43
TL674A - Foundation Installation	Cranes	1	6.00	226	0.29
TL674A - Foundation Installation	Bore/Drill Rigs	1	6.00	205	0.50

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
TL674A - General	0	15.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - Conductor/Cable Installation	0	20.00	2.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C738 - Conductor/Cable Installation	0	20.00	3.00	1.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Pole Installation	0	6.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Underground Cable Installation	0	12.00	2.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Reconfigure Tap	0	6.00	2.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL666D - General	0	9.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL666D - Conductor Removal	0	6.00	2.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL666D - Pole Removal/Modification	0	6.00	3.00	2.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - General	0	9.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - Foundation Installation	0	20.00	2.00	6.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - Pole Installation/Removal	0	20.00	3.00	1.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C738 - General	0	23.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C738 - Pole Installation and Removal	0	20.00	3.00	1.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Foundation Installation	0	12.00	2.00	10.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C738 - Duct Bank	0	20.00	2.00	26.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Duct Bank	0	12.00	2.00	568.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - Duct Bank	0	20.00	2.00	132.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 C738 - Duct Bank - 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	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437		1,301.1680	1,301.1680	0.3970		1,309.5053
Total	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437		1,301.1680	1,301.1680	0.3970		1,309.5053

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0230	0.2979	0.2550	1.0700e-003	0.8752	4.7200e-003	0.8799	0.0916	4.3400e-003	0.0960		102.3831	102.3831	7.2000e-004		102.3981
Vendor	0.0358	0.4343	0.2561	1.9100e-003	2.4292	9.7900e-003	2.4390	0.2570	9.0100e-003	0.2660		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.1510	0.9710	2.5548	0.0101	3.9123	0.0184	3.9306	0.5098	0.0169	0.5267		812.7355	812.7355	0.0264		813.2902

3.2 C738 - Duct Bank - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437	0.0000	1,301.1680	1,301.1680	0.3970		1,309.5053
Total	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437	0.0000	1,301.1680	1,301.1680	0.3970		1,309.5053

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0230	0.2979	0.2550	1.0700e-003	0.2591	4.7200e-003	0.2638	0.0301	4.3400e-003	0.0345		102.3831	102.3831	7.2000e-004		102.3981
Vendor	0.0358	0.4343	0.2561	1.9100e-003	0.7231	9.7900e-003	0.7329	0.0866	9.0100e-003	0.0957		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.1510	0.9710	2.5548	0.0101	1.5902	0.0184	1.6085	0.2780	0.0169	0.2949		812.7355	812.7355	0.0264		813.2902

3.3 C510 - General - 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	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648
Total	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0537	0.6514	0.3841	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3990		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0415	0.1075	0.9197	3.1900e-003	0.2736	1.7400e-003	0.2753	0.0725	1.6100e-003	0.0742		237.4385	237.4385	0.0111		237.6711
Total	0.0952	0.7589	1.3038	6.0500e-003	3.9173	0.0164	3.9337	0.4580	0.0151	0.4731		511.5055	511.5055	0.0127		511.7722

3.3 C510 - General - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858	0.0000	187.6320	187.6320	0.0159		187.9648
Total	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858	0.0000	187.6320	187.6320	0.0159		187.9648

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0537	0.6514	0.3841	2.8600e-003	1.0847	0.0147	1.0994	0.1300	0.0135	0.1435		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0415	0.1075	0.9197	3.1900e-003	0.2736	1.7400e-003	0.2753	0.0725	1.6100e-003	0.0742		237.4385	237.4385	0.0111		237.6711
Total	0.0952	0.7589	1.3038	6.0500e-003	1.3583	0.0164	1.3747	0.2025	0.0151	0.2176		511.5055	511.5055	0.0127		511.7722

3.4 C510 - Foundation 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	0.7639	8.8862	4.9791	0.0134		0.3828	0.3828		0.3527	0.3527		1,316.4371	1,316.4371	0.4119		1,325.0875
Total	0.7639	8.8862	4.9791	0.0134		0.3828	0.3828		0.3527	0.3527		1,316.4371	1,316.4371	0.4119		1,325.0875

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.3200e-003	0.0687	0.0589	2.5000e-004	0.2020	1.0900e-003	0.2031	0.0212	1.0000e-003	0.0222		23.6269	23.6269	1.7000e-004		23.6303
Vendor	0.0358	0.4343	0.2561	1.9100e-003	2.4292	9.7900e-003	2.4390	0.2570	9.0100e-003	0.2660		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.1333	0.7418	2.3586	9.2400e-003	3.2391	0.0147	3.2538	0.4393	0.0136	0.4529		733.9793	733.9793	0.0259		734.5224

3.4 C510 - Foundation Installation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7639	8.8862	4.9791	0.0134		0.3828	0.3828		0.3527	0.3527	0.0000	1,316.4371	1,316.4371	0.4119		1,325.0875
Total	0.7639	8.8862	4.9791	0.0134		0.3828	0.3828		0.3527	0.3527	0.0000	1,316.4371	1,316.4371	0.4119		1,325.0875

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.3200e-003	0.0687	0.0589	2.5000e-004	0.0598	1.0900e-003	0.0609	6.9600e-003	1.0000e-003	7.9600e-003		23.6269	23.6269	1.7000e-004		23.6303
Vendor	0.0358	0.4343	0.2561	1.9100e-003	0.7231	9.7900e-003	0.7329	0.0866	9.0100e-003	0.0957		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.1333	0.7418	2.3586	9.2400e-003	1.3909	0.0147	1.4056	0.2548	0.0136	0.2684		733.9793	733.9793	0.0259		734.5224

3.5 C510 - Pole Installation/Removal - 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	2.6440	27.0817	18.5584	0.0404		1.3063	1.3063		1.2390	1.2390		3,942.9700	3,942.9700	0.9960		3,963.8853
Total	2.6440	27.0817	18.5584	0.0404		1.3063	1.3063		1.2390	1.2390		3,942.9700	3,942.9700	0.9960		3,963.8853

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.7000e-004	6.0600e-003	5.1900e-003	2.0000e-005	0.0178	1.0000e-004	0.0179	1.8700e-003	9.0000e-005	1.9500e-003		2.0847	2.0847	1.0000e-005		2.0850
Vendor	0.0537	0.6514	0.3841	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3990		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.1463	0.8963	2.4330	9.9600e-003	4.2695	0.0187	4.2882	0.5485	0.0172	0.5657		803.7928	803.7928	0.0263		804.3442

3.5 C510 - Pole Installation/Removal - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6440	27.0817	18.5584	0.0404		1.3063	1.3063		1.2390	1.2390	0.0000	3,942.9700	3,942.9700	0.9960		3,963.8853
Total	2.6440	27.0817	18.5584	0.0404		1.3063	1.3063		1.2390	1.2390	0.0000	3,942.9700	3,942.9700	0.9960		3,963.8853

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.7000e-004	6.0600e-003	5.1900e-003	2.0000e-005	5.2800e-003	1.0000e-004	5.3700e-003	6.1000e-004	9.0000e-005	7.0000e-004		2.0847	2.0847	1.0000e-005		2.0850
Vendor	0.0537	0.6514	0.3841	2.8600e-003	1.0847	0.0147	1.0994	0.1300	0.0135	0.1435		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.1463	0.8963	2.4330	9.9600e-003	1.6979	0.0187	1.7166	0.2918	0.0172	0.3089		803.7928	803.7928	0.0263		804.3442

3.6 C738 - General - 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	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648
Total	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0537	0.6514	0.3841	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3990		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.1060	0.2746	2.3503	8.1400e-003	0.6992	4.4400e-003	0.7036	0.1854	4.1200e-003	0.1895		606.7872	606.7872	0.0283		607.3817
Total	0.1597	0.9261	2.7344	0.0110	4.3429	0.0191	4.3620	0.5708	0.0176	0.5884		880.8542	880.8542	0.0299		881.4828

3.6 C738 - General - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858	0.0000	187.6320	187.6320	0.0159		187.9648
Total	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858	0.0000	187.6320	187.6320	0.0159		187.9648

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0537	0.6514	0.3841	2.8600e-003	1.0847	0.0147	1.0994	0.1300	0.0135	0.1435		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.1060	0.2746	2.3503	8.1400e-003	0.6992	4.4400e-003	0.7036	0.1854	4.1200e-003	0.1895		606.7872	606.7872	0.0283		607.3817
Total	0.1597	0.9261	2.7344	0.0110	1.7838	0.0191	1.8030	0.3153	0.0176	0.3330		880.8542	880.8542	0.0299		881.4828

3.7 C738 - Pole Installation and Removal - 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	2.6363	26.9947	18.5076	0.0403		1.3019	1.3019		1.2349	1.2349		3,936.2938	3,936.2938	0.9939		3,957.1648
Total	2.6363	26.9947	18.5076	0.0403		1.3019	1.3019		1.2349	1.2349		3,936.2938	3,936.2938	0.9939		3,957.1648

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.9000e-004	0.0115	9.8100e-003	4.0000e-005	0.0337	1.8000e-004	0.0338	3.5200e-003	1.7000e-004	3.6900e-003		3.9378	3.9378	3.0000e-005		3.9384
Vendor	0.0537	0.6514	0.3841	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3990		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.1468	0.9017	2.4376	9.9800e-003	4.2854	0.0187	4.3041	0.5502	0.0173	0.5674		805.6459	805.6459	0.0263		806.1975

3.7 C738 - Pole Installation and Removal - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6363	26.9947	18.5076	0.0403		1.3019	1.3019		1.2349	1.2349	0.0000	3,936.2938	3,936.2938	0.9939		3,957.1648
Total	2.6363	26.9947	18.5076	0.0403		1.3019	1.3019		1.2349	1.2349	0.0000	3,936.2938	3,936.2938	0.9939		3,957.1648

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.9000e-004	0.0115	9.8100e-003	4.0000e-005	9.9600e-003	1.8000e-004	0.0102	1.1600e-003	1.7000e-004	1.3300e-003		3.9378	3.9378	3.0000e-005		3.9384
Vendor	0.0537	0.6514	0.3841	2.8600e-003	1.0847	0.0147	1.0994	0.1300	0.0135	0.1435		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.1468	0.9017	2.4376	9.9800e-003	1.7026	0.0187	1.7213	0.2923	0.0173	0.3096		805.6459	805.6459	0.0263		806.1975

3.8 TL674A - Duct Bank - 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	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437		1,301.1680	1,301.1680	0.3970		1,309.5053
Total	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437		1,301.1680	1,301.1680	0.3970		1,309.5053

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1320	1.7057	1.4605	6.1000e-003	5.0117	0.0270	5.0387	0.5248	0.0249	0.5497		586.3132	586.3132	4.1100e-003		586.3995
Vendor	0.0358	0.4343	0.2561	1.9100e-003	2.4292	9.7900e-003	2.4390	0.2570	9.0100e-003	0.2660		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0553	0.1433	1.2262	4.2500e-003	0.3648	2.3200e-003	0.3671	0.0967	2.1500e-003	0.0989		316.5847	316.5847	0.0148		316.8948
Total	0.2230	2.2833	2.9428	0.0123	7.8056	0.0391	7.8447	0.8785	0.0360	0.9145		1,085.6091	1,085.6091	0.0200		1,086.0283

3.8 TL674A - Duct Bank - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437	0.0000	1,301.1680	1,301.1680	0.3970		1,309.5053
Total	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437	0.0000	1,301.1680	1,301.1680	0.3970		1,309.5053

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1320	1.7057	1.4605	6.1000e-003	1.4836	0.0270	1.5107	0.1726	0.0249	0.1975		586.3132	586.3132	4.1100e-003		586.3995
Vendor	0.0358	0.4343	0.2561	1.9100e-003	0.7231	9.7900e-003	0.7329	0.0866	9.0100e-003	0.0957		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0553	0.1433	1.2262	4.2500e-003	0.3648	2.3200e-003	0.3671	0.0967	2.1500e-003	0.0989		316.5847	316.5847	0.0148		316.8948
Total	0.2230	2.2833	2.9428	0.0123	2.5715	0.0391	2.6107	0.3560	0.0360	0.3920		1,085.6091	1,085.6091	0.0200		1,086.0283

3.9 C510 - Duct Bank - 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	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437		1,301.1680	1,301.1680	0.3970		1,309.5053
Total	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437		1,301.1680	1,301.1680	0.3970		1,309.5053

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0735	0.9495	0.8130	3.4000e-003	2.7898	0.0150	2.8049	0.2922	0.0138	0.3060		326.3804	326.3804	2.2900e-003		326.4284
Vendor	0.0358	0.4343	0.2561	1.9100e-003	2.4292	9.7900e-003	2.4390	0.2570	9.0100e-003	0.2660		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.2014	1.6226	3.1128	0.0124	5.8269	0.0287	5.8556	0.7103	0.0264	0.7367		1,036.7328	1,036.7328	0.0280		1,037.3205

3.9 C510 - Duct Bank - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437	0.0000	1,301.1680	1,301.1680	0.3970		1,309.5053
Total	0.7524	8.3310	5.2738	0.0134		0.3719	0.3719		0.3437	0.3437	0.0000	1,301.1680	1,301.1680	0.3970		1,309.5053

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0735	0.9495	0.8130	3.4000e-003	0.8259	0.0150	0.8409	0.0961	0.0138	0.1099		326.3804	326.3804	2.2900e-003		326.4284
Vendor	0.0358	0.4343	0.2561	1.9100e-003	0.7231	9.7900e-003	0.7329	0.0866	9.0100e-003	0.0957		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.2014	1.6226	3.1128	0.0124	2.1570	0.0287	2.1857	0.3439	0.0264	0.3703		1,036.7328	1,036.7328	0.0280		1,037.3205

3.10 TL674A - Foundation 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	0.7567	8.8316	4.9419	0.0133		0.3803	0.3803		0.3502	0.3502		1,311.6715	1,311.6715	0.4113		1,320.3095
Total	0.7567	8.8316	4.9419	0.0133		0.3803	0.3803		0.3502	0.3502		1,311.6715	1,311.6715	0.4113		1,320.3095

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6600e-003	0.0344	0.0294	1.2000e-004	0.1010	5.4000e-004	0.1015	0.0106	5.0000e-004	0.0111		11.8134	11.8134	8.0000e-005		11.8152
Vendor	0.0358	0.4343	0.2561	1.9100e-003	2.4292	9.7900e-003	2.4390	0.2570	9.0100e-003	0.2660		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0553	0.1433	1.2262	4.2500e-003	0.3648	2.3200e-003	0.3671	0.0967	2.1500e-003	0.0989		316.5847	316.5847	0.0148		316.8948
Total	0.0938	0.6120	1.5117	6.2800e-003	2.8949	0.0127	2.9076	0.3642	0.0117	0.3759		511.1094	511.1094	0.0159		511.4441

3.10 TL674A - Foundation Installation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7567	8.8316	4.9419	0.0133		0.3803	0.3803		0.3502	0.3502	0.0000	1,311.6715	1,311.6715	0.4113		1,320.3095
Total	0.7567	8.8316	4.9419	0.0133		0.3803	0.3803		0.3502	0.3502	0.0000	1,311.6715	1,311.6715	0.4113		1,320.3095

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.6600e-003	0.0344	0.0294	1.2000e-004	0.0299	5.4000e-004	0.0304	3.4800e-003	5.0000e-004	3.9800e-003		11.8134	11.8134	8.0000e-005		11.8152
Vendor	0.0358	0.4343	0.2561	1.9100e-003	0.7231	9.7900e-003	0.7329	0.0866	9.0100e-003	0.0957		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0553	0.1433	1.2262	4.2500e-003	0.3648	2.3200e-003	0.3671	0.0967	2.1500e-003	0.0989		316.5847	316.5847	0.0148		316.8948
Total	0.0938	0.6120	1.5117	6.2800e-003	1.1178	0.0127	1.1305	0.1868	0.0117	0.1985		511.1094	511.1094	0.0159		511.4441

3.11 TL674A - General - 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	0.3553	2.4472	2.4551	3.9600e-003		0.1717	0.1717		0.1717	0.1717		375.2641	375.2641	0.0317		375.9297
Total	0.3553	2.4472	2.4551	3.9600e-003		0.1717	0.1717		0.1717	0.1717		375.2641	375.2641	0.0317		375.9297

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0537	0.6514	0.3841	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3990		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0691	0.1791	1.5328	5.3100e-003	0.4560	2.9000e-003	0.4589	0.1209	2.6900e-003	0.1236		395.7308	395.7308	0.0185		396.1185
Total	0.1228	0.8305	1.9169	8.1700e-003	4.0997	0.0176	4.1173	0.5063	0.0162	0.5225		669.7978	669.7978	0.0201		670.2196

3.11 TL674A - General - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3553	2.4472	2.4551	3.9600e-003		0.1717	0.1717		0.1717	0.1717	0.0000	375.2641	375.2641	0.0317		375.9297
Total	0.3553	2.4472	2.4551	3.9600e-003		0.1717	0.1717		0.1717	0.1717	0.0000	375.2641	375.2641	0.0317		375.9297

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0537	0.6514	0.3841	2.8600e-003	1.0847	0.0147	1.0994	0.1300	0.0135	0.1435		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0691	0.1791	1.5328	5.3100e-003	0.4560	2.9000e-003	0.4589	0.1209	2.6900e-003	0.1236		395.7308	395.7308	0.0185		396.1185
Total	0.1228	0.8305	1.9169	8.1700e-003	1.5407	0.0176	1.5582	0.2509	0.0162	0.2671		669.7978	669.7978	0.0201		670.2196

3.12 C510 - Conductor/Cable Installation/Removal - 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	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0358	0.4343	0.2561	1.9100e-003	2.4292	9.7900e-003	2.4390	0.2570	9.0100e-003	0.2660		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.1280	0.6731	2.2998	8.9900e-003	3.0371	0.0137	3.0508	0.4182	0.0126	0.4307		710.3524	710.3524	0.0257		710.8921

3.12 C510 - Conductor/Cable Installation/Removal - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0358	0.4343	0.2561	1.9100e-003	0.7231	9.7900e-003	0.7329	0.0866	9.0100e-003	0.0957		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.1280	0.6731	2.2998	8.9900e-003	1.3311	0.0137	1.3447	0.2478	0.0126	0.2604		710.3524	710.3524	0.0257		710.8921

3.13 C738 - Conductor/Cable Installation/Removal - 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	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.6000e-004	0.0124	0.0106	4.0000e-005	0.0364	2.0000e-004	0.0366	3.8100e-003	1.8000e-004	3.9900e-003		4.2528	4.2528	3.0000e-005		4.2535
Vendor	0.0537	0.6514	0.3841	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3990		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.1468	0.9026	2.4384	9.9800e-003	4.2881	0.0188	4.3068	0.5504	0.0173	0.5677		805.9609	805.9609	0.0263		806.5126

3.13 C738 - Conductor/Cable Installation/Removal - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.6000e-004	0.0124	0.0106	4.0000e-005	0.0108	2.0000e-004	0.0110	1.2500e-003	1.8000e-004	1.4300e-003		4.2528	4.2528	3.0000e-005		4.2535
Vendor	0.0537	0.6514	0.3841	2.8600e-003	1.0847	0.0147	1.0994	0.1300	0.0135	0.1435		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0921	0.2388	2.0437	7.0800e-003	0.6080	3.8600e-003	0.6118	0.1612	3.5800e-003	0.1648		527.6411	527.6411	0.0246		528.1580
Total	0.1468	0.9026	2.4384	9.9800e-003	1.7034	0.0188	1.7222	0.2924	0.0173	0.3097		805.9609	805.9609	0.0263		806.5126

3.14 TL674A - Pole 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	0.4471	5.7111	3.8099	7.4900e-003		0.2183	0.2183		0.2009	0.2009		741.6792	741.6792	0.2347		746.6070
Total	0.4471	5.7111	3.8099	7.4900e-003		0.2183	0.2183		0.2009	0.2009		741.6792	741.6792	0.2347		746.6070

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0537	0.6514	0.3841	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3990		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0276	0.0716	0.6131	2.1200e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		158.2923	158.2923	7.3800e-003		158.4474
Total	0.0814	0.7231	0.9972	4.9800e-003	3.8261	0.0159	3.8420	0.4338	0.0146	0.4484		432.3593	432.3593	9.0100e-003		432.5485

3.14 TL674A - Pole Installation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4471	5.7111	3.8099	7.4900e-003		0.2183	0.2183		0.2009	0.2009	0.0000	741.6792	741.6792	0.2347		746.6070
Total	0.4471	5.7111	3.8099	7.4900e-003		0.2183	0.2183		0.2009	0.2009	0.0000	741.6792	741.6792	0.2347		746.6070

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0537	0.6514	0.3841	2.8600e-003	1.0847	0.0147	1.0994	0.1300	0.0135	0.1435		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0276	0.0716	0.6131	2.1200e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		158.2923	158.2923	7.3800e-003		158.4474
Total	0.0814	0.7231	0.9972	4.9800e-003	1.2671	0.0159	1.2829	0.1783	0.0146	0.1929		432.3593	432.3593	9.0100e-003		432.5485

3.15 TL674A - Underground 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	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0358	0.4343	0.2561	1.9100e-003	2.4292	9.7900e-003	2.4390	0.2570	9.0100e-003	0.2660		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0553	0.1433	1.2262	4.2500e-003	0.3648	2.3200e-003	0.3671	0.0967	2.1500e-003	0.0989		316.5847	316.5847	0.0148		316.8948
Total	0.0911	0.5776	1.4823	6.1600e-003	2.7939	0.0121	2.8061	0.3537	0.0112	0.3648		499.2960	499.2960	0.0159		499.6289

3.15 TL674A - Underground Cable Installation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0358	0.4343	0.2561	1.9100e-003	0.7231	9.7900e-003	0.7329	0.0866	9.0100e-003	0.0957		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0553	0.1433	1.2262	4.2500e-003	0.3648	2.3200e-003	0.3671	0.0967	2.1500e-003	0.0989		316.5847	316.5847	0.0148		316.8948
Total	0.0911	0.5776	1.4823	6.1600e-003	1.0879	0.0121	1.1000	0.1834	0.0112	0.1945		499.2960	499.2960	0.0159		499.6289

3.16 TL674A - Reconfigure Tap - 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	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607		1,447.8017	1,447.8017	0.4581		1,457.4212

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0358	0.4343	0.2561	1.9100e-003	2.4292	9.7900e-003	2.4390	0.2570	9.0100e-003	0.2660		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0276	0.0716	0.6131	2.1200e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		158.2923	158.2923	7.3800e-003		158.4474
Total	0.0635	0.5059	0.8692	4.0300e-003	2.6115	0.0110	2.6225	0.3053	0.0101	0.3154		341.0037	341.0037	8.4600e-003		341.1815

3.16 TL674A - Reconfigure Tap - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212
Total	1.0922	12.1069	9.7626	0.0146		0.6095	0.6095		0.5607	0.5607	0.0000	1,447.8017	1,447.8017	0.4581		1,457.4212

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0358	0.4343	0.2561	1.9100e-003	0.7231	9.7900e-003	0.7329	0.0866	9.0100e-003	0.0957		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0276	0.0716	0.6131	2.1200e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		158.2923	158.2923	7.3800e-003		158.4474
Total	0.0635	0.5059	0.8692	4.0300e-003	0.9055	0.0110	0.9165	0.1350	0.0101	0.1451		341.0037	341.0037	8.4600e-003		341.1815

3.17 TL666D - General - 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	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648
Total	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858		187.6320	187.6320	0.0159		187.9648

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0537	0.6514	0.3841	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3990		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0415	0.1075	0.9197	3.1900e-003	0.2736	1.7400e-003	0.2753	0.0725	1.6100e-003	0.0742		237.4385	237.4385	0.0111		237.6711
Total	0.0952	0.7589	1.3038	6.0500e-003	3.9173	0.0164	3.9337	0.4580	0.0151	0.4731		511.5055	511.5055	0.0127		511.7722

3.17 TL666D - General - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858	0.0000	187.6320	187.6320	0.0159		187.9648
Total	0.1776	1.2236	1.2276	1.9800e-003		0.0858	0.0858		0.0858	0.0858	0.0000	187.6320	187.6320	0.0159		187.9648

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0537	0.6514	0.3841	2.8600e-003	1.0847	0.0147	1.0994	0.1300	0.0135	0.1435		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0415	0.1075	0.9197	3.1900e-003	0.2736	1.7400e-003	0.2753	0.0725	1.6100e-003	0.0742		237.4385	237.4385	0.0111		237.6711
Total	0.0952	0.7589	1.3038	6.0500e-003	1.3583	0.0164	1.3747	0.2025	0.0151	0.2176		511.5055	511.5055	0.0127		511.7722

3.18 TL666D - Conductor Removal - 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	2.1845	24.2138	19.5252	0.0292		1.2190	1.2190		1.1215	1.1215		2,895.6034	2,895.6034	0.9161		2,914.8423
Total	2.1845	24.2138	19.5252	0.0292		1.2190	1.2190		1.1215	1.1215		2,895.6034	2,895.6034	0.9161		2,914.8423

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0358	0.4343	0.2561	1.9100e-003	2.4292	9.7900e-003	2.4390	0.2570	9.0100e-003	0.2660		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0276	0.0716	0.6131	2.1200e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		158.2923	158.2923	7.3800e-003		158.4474
Total	0.0635	0.5059	0.8692	4.0300e-003	2.6115	0.0110	2.6225	0.3053	0.0101	0.3154		341.0037	341.0037	8.4600e-003		341.1815

3.18 TL666D - Conductor Removal - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1845	24.2138	19.5252	0.0292		1.2190	1.2190		1.1215	1.1215	0.0000	2,895.6034	2,895.6034	0.9161		2,914.8423
Total	2.1845	24.2138	19.5252	0.0292		1.2190	1.2190		1.1215	1.1215	0.0000	2,895.6034	2,895.6034	0.9161		2,914.8423

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0358	0.4343	0.2561	1.9100e-003	0.7231	9.7900e-003	0.7329	0.0866	9.0100e-003	0.0957		182.7113	182.7113	1.0800e-003		182.7341
Worker	0.0276	0.0716	0.6131	2.1200e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		158.2923	158.2923	7.3800e-003		158.4474
Total	0.0635	0.5059	0.8692	4.0300e-003	0.9055	0.0110	0.9165	0.1350	0.0101	0.1451		341.0037	341.0037	8.4600e-003		341.1815

3.19 TL666D - Pole Removal/Modification - 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	2.4965	25.6119	17.3306	0.0387		1.2110	1.2110		1.1513	1.1513		3,776.0416	3,776.0416	0.9432		3,795.8478
Total	2.4965	25.6119	17.3306	0.0387		1.2110	1.2110		1.1513	1.1513		3,776.0416	3,776.0416	0.9432		3,795.8478

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2000e-003	0.0155	0.0132	6.0000e-005	0.0454	2.4000e-004	0.0457	4.7600e-003	2.3000e-004	4.9800e-003		5.3160	5.3160	4.0000e-005		5.3168
Vendor	0.0537	0.6514	0.3841	2.8600e-003	3.6437	0.0147	3.6584	0.3854	0.0135	0.3990		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0276	0.0716	0.6131	2.1200e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		158.2923	158.2923	7.3800e-003		158.4474
Total	0.0826	0.7385	1.0105	5.0400e-003	3.8716	0.0161	3.8877	0.4386	0.0148	0.4534		437.6754	437.6754	9.0500e-003		437.8654

3.19 TL666D - Pole Removal/Modification - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4965	25.6119	17.3306	0.0387		1.2110	1.2110		1.1513	1.1513	0.0000	3,776.0416	3,776.0416	0.9432		3,795.8478
Total	2.4965	25.6119	17.3306	0.0387		1.2110	1.2110		1.1513	1.1513	0.0000	3,776.0416	3,776.0416	0.9432		3,795.8478

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2000e-003	0.0155	0.0132	6.0000e-005	0.0135	2.4000e-004	0.0137	1.5600e-003	2.3000e-004	1.7900e-003		5.3160	5.3160	4.0000e-005		5.3168
Vendor	0.0537	0.6514	0.3841	2.8600e-003	1.0847	0.0147	1.0994	0.1300	0.0135	0.1435		274.0670	274.0670	1.6300e-003		274.1011
Worker	0.0276	0.0716	0.6131	2.1200e-003	0.1824	1.1600e-003	0.1836	0.0484	1.0700e-003	0.0494		158.2923	158.2923	7.3800e-003		158.4474
Total	0.0826	0.7385	1.0105	5.0400e-003	1.2805	0.0161	1.2966	0.1799	0.0148	0.1947		437.6754	437.6754	9.0500e-003		437.8654

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Total					

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

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

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	0.0000					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

6.2 Area by SubCategory

Unmitigated

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

6.2 Area by SubCategory

Mitigated

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

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

TL674A Reconfiguration & TL666D Removal Project
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project is located in San Diego County

Land Use - No land uses are being constructed.

Construction Phase - Schedule taken from Chapter 3 - Project Description

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

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Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Off-road Equipment - Equipment from Chapter 3 - Project Description (defaults set to zero)

Trips and VMT - Vehicle trips taken from Chapter 3 - Project Description

On-road Fugitive Dust - Worker trips assumed to be 100-percent paved, all other trips assumed to be 98-percent paved

Energy Use -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	0.00	53.00

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	PhaseEndDate	5/16/2019	11/2/2019
tblConstructionPhase	PhaseEndDate	7/6/2019	5/17/2019
tblConstructionPhase	PhaseEndDate	11/9/2019	11/10/2019
tblConstructionPhase	PhaseEndDate	6/20/2019	6/1/2019
tblConstructionPhase	PhaseEndDate	1/3/2020	11/2/2019
tblConstructionPhase	PhaseEndDate	2/24/2020	11/11/2019
tblConstructionPhase	PhaseEndDate	1/4/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	1/31/2020	12/6/2019
tblConstructionPhase	PhaseEndDate	1/22/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	5/16/2019	4/15/2019
tblConstructionPhase	PhaseEndDate	7/22/2019	3/23/2019
tblConstructionPhase	PhaseEndDate	5/16/2019	2/20/2019
tblConstructionPhase	PhaseEndDate	4/20/2019	3/20/2019
tblConstructionPhase	PhaseEndDate	1/9/2020	4/15/2019
tblConstructionPhase	PhaseEndDate	5/14/2019	3/15/2019
tblConstructionPhase	PhaseEndDate	4/16/2019	2/20/2019
tblConstructionPhase	PhaseEndDate	5/14/2019	3/15/2019
tblConstructionPhase	PhaseStartDate	3/16/2019	9/3/2019
tblConstructionPhase	PhaseStartDate	3/24/2019	2/2/2019
tblConstructionPhase	PhaseStartDate	11/3/2019	11/4/2019
tblConstructionPhase	PhaseStartDate	2/21/2019	2/2/2019
tblConstructionPhase	PhaseStartDate	11/3/2019	9/3/2019
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tblConstructionPhase	PhaseStartDate	12/7/2019	11/15/2019
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tblConstructionPhase	PhaseStartDate	11/12/2019	2/15/2019
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2.0 Emissions Summary

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	C738 - Duct Bank	Trenching	1/20/2019	2/20/2019	6	27	
2	C510 - General	Building Construction	1/20/2019	4/15/2019	6	73	
3	C510 - Foundation Installation	Building Construction	1/20/2019	2/20/2019	6	27	
4	C510 - Pole Installation/Removal	Building Construction	1/20/2019	3/20/2019	6	51	
5	C738 - General	Building Construction	1/20/2019	3/15/2019	6	47	
6	C738 - Pole Installation and Removal	Building Construction	1/20/2019	2/20/2019	6	27	
7	TL674A - Duct Bank	Trenching	2/2/2019	6/1/2019	6	103	
8	C510 - Duct Bank	Trenching	2/2/2019	3/23/2019	6	43	
9	TL674A - Foundation Installation	Building Construction	2/2/2019	5/17/2019	6	90	
10	TL674A - General	Building Construction	2/2/2019	11/11/2019	6	242	
11	C510 - Conductor/Cable Installation/Removal	Building Construction	2/15/2019	4/15/2019	6	51	
12	C738 - Conductor/Cable Installation/Removal	Building Construction	2/15/2019	3/15/2019	6	25	
13	TL674A - Pole Installation	Building Construction	9/3/2019	11/2/2019	6	53	
14	TL674A - Underground Cable Installation	Building Construction	9/3/2019	11/2/2019	6	53	
15	TL674A - Reconfigure Tap	Building Construction	11/4/2019	11/10/2019	6	6	
16	TL666D - General	Building Construction	11/6/2019	12/31/2019	6	48	
17	TL666D - Conductor Removal	Building Construction	11/6/2019	12/6/2019	6	27	
18	TL666D - Pole Removal/Modification	Building Construction	11/15/2019	12/31/2019	6	40	

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
TL674A - Foundation Installation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
TL674A - Foundation Installation	Plate Compactors	1	4.00	8	0.43
TL674A - General	Air Compressors	2	4.00	78	0.48
C510 - Conductor/Cable Installation/Removal	Aerial Lifts	2	6.00	62	0.31
C510 - Conductor/Cable Installation/Removal	Other Construction Equipment	2	8.00	171	0.42
C738 - Conductor/Cable Installation/Removal	Aerial Lifts	2	6.00	62	0.31
C738 - Conductor/Cable Installation/Removal	Other Construction Equipment	2	8.00	171	0.42
TL674A - Pole Installation	Cranes	1	6.00	226	0.29
TL674A - Pole Installation	Aerial Lifts	2	8.00	62	0.31
TL674A - Underground Cable Installation	Aerial Lifts	2	6.00	62	0.31
TL674A - Underground Cable Installation	Other Construction Equipment	2	8.00	171	0.42
TL674A - Reconfigure Tap	Aerial Lifts	2	6.00	62	0.31
TL674A - Reconfigure Tap	Other Construction Equipment	2	8.00	171	0.42
TL666D - General	Air Compressors	1	4.00	78	0.48
TL666D - Conductor Removal	Aerial Lifts	4	6.00	62	0.31
TL666D - Conductor Removal	Other Construction Equipment	4	8.00	171	0.42
TL666D - Pole Removal/Modification	Cranes	1	6.00	226	0.29
TL666D - Pole Removal/Modification	Bore/Drill Rigs	2	5.00	205	0.50
TL666D - Pole Removal/Modification	Cranes	2	5.00	226	0.29
TL666D - Pole Removal/Modification	Tractors/Loaders/Backhoes	1	5.00	97	0.37
TL666D - Pole Removal/Modification	Plate Compactors	1	5.00	8	0.43
TL666D - Pole Removal/Modification	Concrete/Industrial Saws	2	2.00	81	0.73

TL666D - Pole Removal/Modification	Air Compressors	4	4.00	78	0.48
TL666D - Pole Removal/Modification	Aerial Lifts	2	8.00	62	0.31
TL674A - Pole Installation	Air Compressors	0	6.00	78	0.48
TL674A - Underground Cable Installation	Cement and Mortar Mixers	0	6.00	9	0.56
TL674A - Reconfigure Tap	Concrete/Industrial Saws	0	8.00	81	0.73
TL674A - Duct Bank	Concrete/Industrial Saws	0	8.00	81	0.73
TL674A - Foundation Installation	Cranes	0	4.00	226	0.29
TL674A - Foundation Installation	Forklifts	0	6.00	89	0.20
TL674A - General	Graders	0	8.00	174	0.41
TL674A - Underground Cable Installation	Pavers	0	7.00	125	0.42
TL674A - Underground Cable Installation	Rollers	0	7.00	80	0.38
TL674A - Reconfigure Tap	Rubber Tired Dozers	0	1.00	255	0.40
TL674A - Duct Bank	Rubber Tired Dozers	0	1.00	255	0.40
TL674A - Foundation Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL674A - Reconfigure Tap	Tractors/Loaders/Backhoes	0	6.00	97	0.37
TL674A - Duct Bank	Tractors/Loaders/Backhoes	0	6.00	97	0.37
TL674A - Underground Cable Installation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
TL674A - General	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL674A - General	Cranes	0	4.00	226	0.29
C510 - Conductor/Cable Installation/Removal	Cranes	0	4.00	226	0.29
C738 - Conductor/Cable Installation/Removal	Cranes	0	4.00	226	0.29
TL674A - Pole Installation	Cranes	0	4.00	226	0.29
TL674A - Underground Cable Installation	Cranes	0	4.00	226	0.29
TL674A - Reconfigure Tap	Cranes	0	4.00	226	0.29
TL666D - General	Cranes	0	4.00	226	0.29
TL666D - Conductor Removal	Cranes	0	4.00	226	0.29

TL666D - Pole Removal/Modification	Cranes	0	4.00	226	0.29
C510 - General	Cranes	0	4.00	226	0.29
C510 - Foundation Installation	Cranes	0	4.00	226	0.29
C510 - Pole Installation/Removal	Cranes	0	4.00	226	0.29
C738 - General	Cranes	0	4.00	226	0.29
C738 - Pole Installation and Removal	Cranes	0	4.00	226	0.29
TL674A - General	Forklifts	0	6.00	89	0.20
C510 - Conductor/Cable Installation/Removal	Forklifts	0	6.00	89	0.20
C738 - Conductor/Cable Installation/Removal	Forklifts	0	6.00	89	0.20
TL674A - Pole Installation	Forklifts	0	6.00	89	0.20
TL674A - Underground Cable Installation	Forklifts	0	6.00	89	0.20
TL674A - Reconfigure Tap	Forklifts	0	6.00	89	0.20
TL666D - General	Forklifts	0	6.00	89	0.20
TL666D - Conductor Removal	Forklifts	0	6.00	89	0.20
TL666D - Pole Removal/Modification	Forklifts	0	6.00	89	0.20
C510 - General	Forklifts	0	6.00	89	0.20
C510 - Foundation Installation	Forklifts	0	6.00	89	0.20
C510 - Pole Installation/Removal	Forklifts	0	6.00	89	0.20
C738 - General	Forklifts	0	6.00	89	0.20
C738 - Pole Installation and Removal	Forklifts	0	6.00	89	0.20
C510 - Conductor/Cable Installation/Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C738 - Conductor/Cable Installation/Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL674A - Pole Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL666D - General	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL666D - Conductor Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
TL666D - Pole Removal/Modification	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C510 - General	Tractors/Loaders/Backhoes	0	8.00	97	0.37

C510 - Foundation Installation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C510 - Pole Installation/Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C738 - General	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C738 - Pole Installation and Removal	Tractors/Loaders/Backhoes	0	8.00	97	0.37
C738 - Duct Bank	Cranes	1	4.00	226	0.29
C738 - Duct Bank	Tractors/Loaders/Backhoes	1	8.00	97	0.37
C738 - Duct Bank	Bore/Drill Rigs	1	6.00	205	0.50
C738 - Duct Bank	Plate Compactors	2	8.00	8	0.43
C510 - General	Air Compressors	1	4.00	78	0.48
C510 - Foundation Installation	Cranes	1	6.00	226	0.29
C510 - Foundation Installation	Bore/Drill Rigs	1	6.00	205	0.50
C510 - Foundation Installation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
C510 - Foundation Installation	Plate Compactors	1	5.00	8	0.43
C510 - Pole Installation/Removal	Cranes	1	6.00	226	0.29
C510 - Pole Installation/Removal	Bore/Drill Rigs	2	5.00	205	0.50
C510 - Pole Installation/Removal	Cranes	2	5.00	226	0.29
C510 - Pole Installation/Removal	Tractors/Loaders/Backhoes	1	5.00	97	0.37
C510 - Pole Installation/Removal	Rollers	1	5.00	80	0.38
C510 - Pole Installation/Removal	Concrete/Industrial Saws	2	2.00	81	0.73
C510 - Pole Installation/Removal	Air Compressors	4	4.00	78	0.48
C510 - Pole Installation/Removal	Aerial Lifts	2	8.00	62	0.31
C510 - Pole Installation/Removal	Plate Compactors	1	5.00	8	0.43
C738 - General	Air Compressors	1	4.00	78	0.48
C738 - Pole Installation and Removal	Cranes	1	6.00	226	0.29
C738 - Pole Installation and Removal	Bore/Drill Rigs	2	5.00	205	0.50
C738 - Pole Installation and Removal	Cranes	2	5.00	226	0.29
C738 - Pole Installation and Removal	Tractors/Loaders/Backhoes	1	5.00	97	0.37
C738 - Pole Installation and Removal	Rollers	1	5.00	80	0.38

C738 - Pole Installation and Removal	Concrete/Industrial Saws	2	2.00	81	0.73
C738 - Pole Installation and Removal	Air Compressors	4	4.00	78	0.48
C738 - Pole Installation and Removal	Aerial Lifts	2	8.00	62	0.31
C738 - Pole Installation and Removal	Plate Compactors	1	5.00	8	0.43
TL674A - Duct Bank	Cranes	1	4.00	226	0.29
TL674A - Duct Bank	Tractors/Loaders/Backhoes	1	8.00	97	0.37
TL674A - Duct Bank	Bore/Drill Rigs	1	6.00	205	0.50
TL674A - Duct Bank	Plate Compactors	2	8.00	8	0.43
C510 - Duct Bank	Cranes	1	4.00	226	0.29
C510 - Duct Bank	Tractors/Loaders/Backhoes	1	8.00	97	0.37
C510 - Duct Bank	Bore/Drill Rigs	1	6.00	205	0.50
C510 - Duct Bank	Plate Compactors	2	8.00	8	0.43
TL674A - Foundation Installation	Cranes	1	6.00	226	0.29
TL674A - Foundation Installation	Bore/Drill Rigs	1	6.00	205	0.50

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
TL674A - General	0	15.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - Conductor/Cable Installation	0	20.00	2.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C738 - Conductor/Cable Installation	0	20.00	3.00	1.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Pole Installation	0	6.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Underground Cable Installation	0	12.00	2.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Reconfigure Tap	0	6.00	2.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL666D - General	0	9.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL666D - Conductor Removal	0	6.00	2.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL666D - Pole Removal/Modification	0	6.00	3.00	2.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - General	0	9.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - Foundation Installation	0	20.00	2.00	6.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - Pole Installation/Removal	0	20.00	3.00	1.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C738 - General	0	23.00	3.00	0.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C738 - Pole Installation and Removal	0	20.00	3.00	1.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Foundation Installation	0	12.00	2.00	10.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C738 - Duct Bank	0	20.00	2.00	26.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
TL674A - Duct Bank	0	12.00	2.00	568.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT
C510 - Duct Bank	0	20.00	2.00	132.00	40.00	40.00	30.00	LD_Mix	MHDT	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 C738 - Duct Bank - 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	0.0102	0.1125	0.0712	1.8000e-004		5.0200e-003	5.0200e-003		4.6400e-003	4.6400e-003	0.0000	15.9354	15.9354	4.8600e-003	0.0000	16.0375
Total	0.0102	0.1125	0.0712	1.8000e-004		5.0200e-003	5.0200e-003		4.6400e-003	4.6400e-003	0.0000	15.9354	15.9354	4.8600e-003	0.0000	16.0375

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-004	4.0400e-003	3.2100e-003	1.0000e-005	0.0106	6.0000e-005	0.0106	1.1100e-003	6.0000e-005	1.1700e-003	0.0000	1.2550	1.2550	1.0000e-005	0.0000	1.2552
Vendor	4.7000e-004	5.8900e-003	3.3200e-003	3.0000e-005	0.0293	1.3000e-004	0.0294	3.1200e-003	1.2000e-004	3.2400e-003	0.0000	2.2403	2.2403	1.0000e-005	0.0000	2.2405
Worker	1.1900e-003	3.1800e-003	0.0279	1.0000e-004	8.0100e-003	5.0000e-005	8.0600e-003	2.1300e-003	5.0000e-005	2.1800e-003	0.0000	6.5273	6.5273	3.0000e-004	0.0000	6.5336
Total	1.9600e-003	0.0131	0.0345	1.4000e-004	0.0479	2.4000e-004	0.0481	6.3600e-003	2.3000e-004	6.5900e-003	0.0000	10.0226	10.0226	3.2000e-004	0.0000	10.0293

3.2 C738 - Duct Bank - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0102	0.1125	0.0712	1.8000e-004		5.0200e-003	5.0200e-003		4.6400e-003	4.6400e-003	0.0000	15.9354	15.9354	4.8600e-003	0.0000	16.0375
Total	0.0102	0.1125	0.0712	1.8000e-004		5.0200e-003	5.0200e-003		4.6400e-003	4.6400e-003	0.0000	15.9354	15.9354	4.8600e-003	0.0000	16.0375

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-004	4.0400e-003	3.2100e-003	1.0000e-005	3.1400e-003	6.0000e-005	3.2100e-003	3.7000e-004	6.0000e-005	4.3000e-004	0.0000	1.2550	1.2550	1.0000e-005	0.0000	1.2552
Vendor	4.7000e-004	5.8900e-003	3.3200e-003	3.0000e-005	8.7800e-003	1.3000e-004	8.9200e-003	1.0700e-003	1.2000e-004	1.1900e-003	0.0000	2.2403	2.2403	1.0000e-005	0.0000	2.2405
Worker	1.1900e-003	3.1800e-003	0.0279	1.0000e-004	8.0100e-003	5.0000e-005	8.0600e-003	2.1300e-003	5.0000e-005	2.1800e-003	0.0000	6.5273	6.5273	3.0000e-004	0.0000	6.5336
Total	1.9600e-003	0.0131	0.0345	1.4000e-004	0.0199	2.4000e-004	0.0202	3.5700e-003	2.3000e-004	3.8000e-003	0.0000	10.0226	10.0226	3.2000e-004	0.0000	10.0293

3.3 C510 - General - 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	6.4800e-003	0.0447	0.0448	7.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	6.2129	6.2129	5.2000e-004	0.0000	6.2239
Total	6.4800e-003	0.0447	0.0448	7.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	6.2129	6.2129	5.2000e-004	0.0000	6.2239

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9200e-003	0.0239	0.0135	1.0000e-004	0.1188	5.4000e-004	0.1193	0.0126	4.9000e-004	0.0131	0.0000	9.0854	9.0854	5.0000e-005	0.0000	9.0866
Worker	1.4500e-003	3.8700e-003	0.0340	1.2000e-004	9.7500e-003	6.0000e-005	9.8100e-003	2.5900e-003	6.0000e-005	2.6500e-003	0.0000	7.9415	7.9415	3.7000e-004	0.0000	7.9492
Total	3.3700e-003	0.0278	0.0474	2.2000e-004	0.1285	6.0000e-004	0.1291	0.0152	5.5000e-004	0.0158	0.0000	17.0269	17.0269	4.2000e-004	0.0000	17.0358

3.3 C510 - General - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.4800e-003	0.0447	0.0448	7.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	6.2129	6.2129	5.2000e-004	0.0000	6.2239
Total	6.4800e-003	0.0447	0.0448	7.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	6.2129	6.2129	5.2000e-004	0.0000	6.2239

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9200e-003	0.0239	0.0135	1.0000e-004	0.0356	5.4000e-004	0.0362	4.3400e-003	4.9000e-004	4.8300e-003	0.0000	9.0854	9.0854	5.0000e-005	0.0000	9.0866
Worker	1.4500e-003	3.8700e-003	0.0340	1.2000e-004	9.7500e-003	6.0000e-005	9.8100e-003	2.5900e-003	6.0000e-005	2.6500e-003	0.0000	7.9415	7.9415	3.7000e-004	0.0000	7.9492
Total	3.3700e-003	0.0278	0.0474	2.2000e-004	0.0454	6.0000e-004	0.0460	6.9300e-003	5.5000e-004	7.4800e-003	0.0000	17.0269	17.0269	4.2000e-004	0.0000	17.0358

3.4 C510 - Foundation 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	0.0103	0.1200	0.0672	1.8000e-004		5.1700e-003	5.1700e-003		4.7600e-003	4.7600e-003	0.0000	16.1224	16.1224	5.0400e-003	0.0000	16.2283
Total	0.0103	0.1200	0.0672	1.8000e-004		5.1700e-003	5.1700e-003		4.7600e-003	4.7600e-003	0.0000	16.1224	16.1224	5.0400e-003	0.0000	16.2283

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	9.3000e-004	7.4000e-004	0.0000	2.4300e-003	1.0000e-005	2.4500e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.2896	0.2896	0.0000	0.0000	0.2897
Vendor	4.7000e-004	5.8900e-003	3.3200e-003	3.0000e-005	0.0293	1.3000e-004	0.0294	3.1200e-003	1.2000e-004	3.2400e-003	0.0000	2.2403	2.2403	1.0000e-005	0.0000	2.2405
Worker	1.1900e-003	3.1800e-003	0.0279	1.0000e-004	8.0100e-003	5.0000e-005	8.0600e-003	2.1300e-003	5.0000e-005	2.1800e-003	0.0000	6.5273	6.5273	3.0000e-004	0.0000	6.5336
Total	1.7300e-003	0.0100	0.0320	1.3000e-004	0.0397	1.9000e-004	0.0399	5.5100e-003	1.8000e-004	5.6900e-003	0.0000	9.0571	9.0571	3.1000e-004	0.0000	9.0638

3.4 C510 - Foundation Installation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1200	0.0672	1.8000e-004		5.1700e-003	5.1700e-003		4.7600e-003	4.7600e-003	0.0000	16.1224	16.1224	5.0400e-003	0.0000	16.2283
Total	0.0103	0.1200	0.0672	1.8000e-004		5.1700e-003	5.1700e-003		4.7600e-003	4.7600e-003	0.0000	16.1224	16.1224	5.0400e-003	0.0000	16.2283

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	9.3000e-004	7.4000e-004	0.0000	7.3000e-004	1.0000e-005	7.4000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.2896	0.2896	0.0000	0.0000	0.2897
Vendor	4.7000e-004	5.8900e-003	3.3200e-003	3.0000e-005	8.7800e-003	1.3000e-004	8.9200e-003	1.0700e-003	1.2000e-004	1.1900e-003	0.0000	2.2403	2.2403	1.0000e-005	0.0000	2.2405
Worker	1.1900e-003	3.1800e-003	0.0279	1.0000e-004	8.0100e-003	5.0000e-005	8.0600e-003	2.1300e-003	5.0000e-005	2.1800e-003	0.0000	6.5273	6.5273	3.0000e-004	0.0000	6.5336
Total	1.7300e-003	0.0100	0.0320	1.3000e-004	0.0175	1.9000e-004	0.0177	3.2900e-003	1.8000e-004	3.4700e-003	0.0000	9.0571	9.0571	3.1000e-004	0.0000	9.0638

3.5 C510 - Pole Installation/Removal - 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	0.0674	0.6906	0.4732	1.0300e-003		0.0333	0.0333		0.0316	0.0316	0.0000	91.2136	91.2136	0.0230	0.0000	91.6974
Total	0.0674	0.6906	0.4732	1.0300e-003		0.0333	0.0333		0.0316	0.0316	0.0000	91.2136	91.2136	0.0230	0.0000	91.6974

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.6000e-004	1.2000e-004	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0483	0.0483	0.0000	0.0000	0.0483
Vendor	1.3400e-003	0.0167	9.3900e-003	7.0000e-005	0.0830	3.7000e-004	0.0834	8.8300e-003	3.4000e-004	9.1700e-003	0.0000	6.3474	6.3474	4.0000e-005	0.0000	6.3482
Worker	2.2600e-003	6.0000e-003	0.0528	1.8000e-004	0.0151	1.0000e-004	0.0152	4.0200e-003	9.0000e-005	4.1100e-003	0.0000	12.3293	12.3293	5.7000e-004	0.0000	12.3412
Total	3.6100e-003	0.0229	0.0623	2.5000e-004	0.0985	4.7000e-004	0.0990	0.0129	4.3000e-004	0.0133	0.0000	18.7249	18.7249	6.1000e-004	0.0000	18.7377

3.5 C510 - Pole Installation/Removal - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0674	0.6906	0.4732	1.0300e-003		0.0333	0.0333		0.0316	0.0316	0.0000	91.2135	91.2135	0.0230	0.0000	91.6973
Total	0.0674	0.6906	0.4732	1.0300e-003		0.0333	0.0333		0.0316	0.0316	0.0000	91.2135	91.2135	0.0230	0.0000	91.6973

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	2.0000e-005	0.0000	0.0483	0.0483	0.0000	0.0000	0.0483
Vendor	1.3400e-003	0.0167	9.3900e-003	7.0000e-005	0.0249	3.7000e-004	0.0253	3.0300e-003	3.4000e-004	3.3700e-003	0.0000	6.3474	6.3474	4.0000e-005	0.0000	6.3482
Worker	2.2600e-003	6.0000e-003	0.0528	1.8000e-004	0.0151	1.0000e-004	0.0152	4.0200e-003	9.0000e-005	4.1100e-003	0.0000	12.3293	12.3293	5.7000e-004	0.0000	12.3412
Total	3.6100e-003	0.0229	0.0623	2.5000e-004	0.0401	4.7000e-004	0.0406	7.0600e-003	4.3000e-004	7.5000e-003	0.0000	18.7249	18.7249	6.1000e-004	0.0000	18.7377

3.6 C738 - General - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.1700e-003	0.0288	0.0289	5.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	4.0001	4.0001	3.4000e-004	0.0000	4.0072
Total	4.1700e-003	0.0288	0.0289	5.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	4.0001	4.0001	3.4000e-004	0.0000	4.0072

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2400e-003	0.0154	8.6600e-003	7.0000e-005	0.0765	3.4000e-004	0.0768	8.1400e-003	3.2000e-004	8.4500e-003	0.0000	5.8495	5.8495	3.0000e-005	0.0000	5.8503
Worker	2.3900e-003	6.3600e-003	0.0559	1.9000e-004	0.0160	1.0000e-004	0.0161	4.2600e-003	1.0000e-004	4.3600e-003	0.0000	13.0666	13.0666	6.0000e-004	0.0000	13.0793
Total	3.6300e-003	0.0218	0.0646	2.6000e-004	0.0925	4.4000e-004	0.0930	0.0124	4.2000e-004	0.0128	0.0000	18.9161	18.9161	6.3000e-004	0.0000	18.9295

3.6 C738 - General - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.1700e-003	0.0288	0.0289	5.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	4.0001	4.0001	3.4000e-004	0.0000	4.0072
Total	4.1700e-003	0.0288	0.0289	5.0000e-005		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	4.0001	4.0001	3.4000e-004	0.0000	4.0072

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2400e-003	0.0154	8.6600e-003	7.0000e-005	0.0229	3.4000e-004	0.0233	2.7900e-003	3.2000e-004	3.1100e-003	0.0000	5.8495	5.8495	3.0000e-005	0.0000	5.8503
Worker	2.3900e-003	6.3600e-003	0.0559	1.9000e-004	0.0160	1.0000e-004	0.0161	4.2600e-003	1.0000e-004	4.3600e-003	0.0000	13.0666	13.0666	6.0000e-004	0.0000	13.0793
Total	3.6300e-003	0.0218	0.0646	2.6000e-004	0.0390	4.4000e-004	0.0394	7.0500e-003	4.2000e-004	7.4700e-003	0.0000	18.9161	18.9161	6.3000e-004	0.0000	18.9295

3.7 C738 - Pole Installation and Removal - 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	0.3644	0.2499	5.4000e-004		0.0176	0.0176		0.0167	0.0167	0.0000	48.2078	48.2078	0.0122	0.0000	48.4634
Total	0.0356	0.3644	0.2499	5.4000e-004		0.0176	0.0176		0.0167	0.0167	0.0000	48.2078	48.2078	0.0122	0.0000	48.4634

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.6000e-004	1.2000e-004	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0483	0.0483	0.0000	0.0000	0.0483
Vendor	7.1000e-004	8.8400e-003	4.9700e-003	4.0000e-005	0.0439	2.0000e-004	0.0441	4.6700e-003	1.8000e-004	4.8600e-003	0.0000	3.3604	3.3604	2.0000e-005	0.0000	3.3608
Worker	1.1900e-003	3.1800e-003	0.0279	1.0000e-004	8.0100e-003	5.0000e-005	8.0600e-003	2.1300e-003	5.0000e-005	2.1800e-003	0.0000	6.5273	6.5273	3.0000e-004	0.0000	6.5336
Total	1.9100e-003	0.0122	0.0330	1.4000e-004	0.0524	2.5000e-004	0.0526	6.8400e-003	2.3000e-004	7.0800e-003	0.0000	9.9359	9.9359	3.2000e-004	0.0000	9.9427

3.7 C738 - Pole Installation and Removal - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0356	0.3644	0.2499	5.4000e-004		0.0176	0.0176		0.0167	0.0167	0.0000	48.2077	48.2077	0.0122	0.0000	48.4633
Total	0.0356	0.3644	0.2499	5.4000e-004		0.0176	0.0176		0.0167	0.0167	0.0000	48.2077	48.2077	0.0122	0.0000	48.4633

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	2.0000e-005	0.0000	0.0483	0.0483	0.0000	0.0000	0.0483
Vendor	7.1000e-004	8.8400e-003	4.9700e-003	4.0000e-005	0.0132	2.0000e-004	0.0134	1.6000e-003	1.8000e-004	1.7900e-003	0.0000	3.3604	3.3604	2.0000e-005	0.0000	3.3608
Worker	1.1900e-003	3.1800e-003	0.0279	1.0000e-004	8.0100e-003	5.0000e-005	8.0600e-003	2.1300e-003	5.0000e-005	2.1800e-003	0.0000	6.5273	6.5273	3.0000e-004	0.0000	6.5336
Total	1.9100e-003	0.0122	0.0330	1.4000e-004	0.0213	2.5000e-004	0.0216	3.7400e-003	2.3000e-004	3.9900e-003	0.0000	9.9359	9.9359	3.2000e-004	0.0000	9.9427

3.8 TL674A - Duct Bank - 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	0.0388	0.4290	0.2716	6.9000e-004		0.0192	0.0192		0.0177	0.0177	0.0000	60.7906	60.7906	0.0186	0.0000	61.1801
Total	0.0388	0.4290	0.2716	6.9000e-004		0.0192	0.0192		0.0177	0.0177	0.0000	60.7906	60.7906	0.0186	0.0000	61.1801

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.6100e-003	0.0882	0.0701	3.1000e-004	0.2305	1.3900e-003	0.2319	0.0243	1.2800e-003	0.0255	0.0000	27.4177	27.4177	1.9000e-004	0.0000	27.4217
Vendor	1.8100e-003	0.0225	0.0127	1.0000e-004	0.1117	5.0000e-004	0.1122	0.0119	4.6000e-004	0.0124	0.0000	8.5461	8.5461	5.0000e-005	0.0000	8.5472
Worker	2.7300e-003	7.2700e-003	0.0639	2.2000e-004	0.0183	1.2000e-004	0.0185	4.8700e-003	1.1000e-004	4.9800e-003	0.0000	14.9402	14.9402	6.9000e-004	0.0000	14.9547
Total	0.0112	0.1179	0.1467	6.3000e-004	0.3606	2.0100e-003	0.3626	0.0410	1.8500e-003	0.0429	0.0000	50.9040	50.9040	9.3000e-004	0.0000	50.9236

3.8 TL674A - Duct Bank - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0388	0.4290	0.2716	6.9000e-004		0.0192	0.0192		0.0177	0.0177	0.0000	60.7905	60.7905	0.0186	0.0000	61.1800
Total	0.0388	0.4290	0.2716	6.9000e-004		0.0192	0.0192		0.0177	0.0177	0.0000	60.7905	60.7905	0.0186	0.0000	61.1800

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.6100e-003	0.0882	0.0701	3.1000e-004	0.0687	1.3900e-003	0.0701	8.1000e-003	1.2800e-003	9.3800e-003	0.0000	27.4177	27.4177	1.9000e-004	0.0000	27.4217
Vendor	1.8100e-003	0.0225	0.0127	1.0000e-004	0.0335	5.0000e-004	0.0340	4.0800e-003	4.6000e-004	4.5400e-003	0.0000	8.5461	8.5461	5.0000e-005	0.0000	8.5472
Worker	2.7300e-003	7.2700e-003	0.0639	2.2000e-004	0.0183	1.2000e-004	0.0185	4.8700e-003	1.1000e-004	4.9800e-003	0.0000	14.9402	14.9402	6.9000e-004	0.0000	14.9547
Total	0.0112	0.1179	0.1467	6.3000e-004	0.1205	2.0100e-003	0.1225	0.0171	1.8500e-003	0.0189	0.0000	50.9040	50.9040	9.3000e-004	0.0000	50.9236

3.9 C510 - Duct Bank - 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	0.0162	0.1791	0.1134	2.9000e-004		8.0000e-003	8.0000e-003		7.3900e-003	7.3900e-003	0.0000	25.3786	25.3786	7.7400e-003	0.0000	25.5412
Total	0.0162	0.1791	0.1134	2.9000e-004		8.0000e-003	8.0000e-003		7.3900e-003	7.3900e-003	0.0000	25.3786	25.3786	7.7400e-003	0.0000	25.5412

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5400e-003	0.0205	0.0163	7.0000e-005	0.0536	3.2000e-004	0.0539	5.6400e-003	3.0000e-004	5.9300e-003	0.0000	6.3717	6.3717	4.0000e-005	0.0000	6.3727
Vendor	7.6000e-004	9.3900e-003	5.2800e-003	4.0000e-005	0.0467	2.1000e-004	0.0469	4.9600e-003	1.9000e-004	5.1600e-003	0.0000	3.5678	3.5678	2.0000e-005	0.0000	3.5682
Worker	1.9000e-003	5.0600e-003	0.0445	1.5000e-004	0.0128	8.0000e-005	0.0128	3.3900e-003	8.0000e-005	3.4700e-003	0.0000	10.3953	10.3953	4.8000e-004	0.0000	10.4054
Total	4.2000e-003	0.0349	0.0661	2.6000e-004	0.1130	6.1000e-004	0.1136	0.0140	5.7000e-004	0.0146	0.0000	20.3348	20.3348	5.4000e-004	0.0000	20.3463

3.9 C510 - Duct Bank - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0162	0.1791	0.1134	2.9000e-004		8.0000e-003	8.0000e-003		7.3900e-003	7.3900e-003	0.0000	25.3786	25.3786	7.7400e-003	0.0000	25.5412
Total	0.0162	0.1791	0.1134	2.9000e-004		8.0000e-003	8.0000e-003		7.3900e-003	7.3900e-003	0.0000	25.3786	25.3786	7.7400e-003	0.0000	25.5412

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5400e-003	0.0205	0.0163	7.0000e-005	0.0160	3.2000e-004	0.0163	1.8800e-003	3.0000e-004	2.1800e-003	0.0000	6.3717	6.3717	4.0000e-005	0.0000	6.3727
Vendor	7.6000e-004	9.3900e-003	5.2800e-003	4.0000e-005	0.0140	2.1000e-004	0.0142	1.7000e-003	1.9000e-004	1.9000e-003	0.0000	3.5678	3.5678	2.0000e-005	0.0000	3.5682
Worker	1.9000e-003	5.0600e-003	0.0445	1.5000e-004	0.0128	8.0000e-005	0.0128	3.3900e-003	8.0000e-005	3.4700e-003	0.0000	10.3953	10.3953	4.8000e-004	0.0000	10.4054
Total	4.2000e-003	0.0349	0.0661	2.6000e-004	0.0427	6.1000e-004	0.0433	6.9700e-003	5.7000e-004	7.5500e-003	0.0000	20.3348	20.3348	5.4000e-004	0.0000	20.3463

3.10 TL674A - Foundation 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	0.0341	0.3974	0.2224	6.0000e-004		0.0171	0.0171		0.0158	0.0158	0.0000	53.5468	53.5468	0.0168	0.0000	53.8994
Total	0.0341	0.3974	0.2224	6.0000e-004		0.0171	0.0171		0.0158	0.0158	0.0000	53.5468	53.5468	0.0168	0.0000	53.8994

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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-004	1.5500e-003	1.2300e-003	1.0000e-005	4.0600e-003	2.0000e-005	4.0800e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	0.4827	0.4827	0.0000	0.0000	0.4828
Vendor	1.5800e-003	0.0197	0.0111	9.0000e-005	0.0976	4.4000e-004	0.0981	0.0104	4.0000e-004	0.0108	0.0000	7.4675	7.4675	4.0000e-005	0.0000	7.4684
Worker	2.3900e-003	6.3600e-003	0.0559	1.9000e-004	0.0160	1.0000e-004	0.0161	4.2600e-003	1.0000e-004	4.3500e-003	0.0000	13.0545	13.0545	6.0000e-004	0.0000	13.0672
Total	4.0900e-003	0.0276	0.0681	2.9000e-004	0.1177	5.6000e-004	0.1183	0.0151	5.2000e-004	0.0156	0.0000	21.0047	21.0047	6.4000e-004	0.0000	21.0184

3.10 TL674A - Foundation Installation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0341	0.3974	0.2224	6.0000e-004		0.0171	0.0171		0.0158	0.0158	0.0000	53.5467	53.5467	0.0168	0.0000	53.8993
Total	0.0341	0.3974	0.2224	6.0000e-004		0.0171	0.0171		0.0158	0.0158	0.0000	53.5467	53.5467	0.0168	0.0000	53.8993

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	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-004	1.5500e-003	1.2300e-003	1.0000e-005	1.2100e-003	2.0000e-005	1.2300e-003	1.4000e-004	2.0000e-005	1.7000e-004	0.0000	0.4827	0.4827	0.0000	0.0000	0.4828
Vendor	1.5800e-003	0.0197	0.0111	9.0000e-005	0.0293	4.4000e-004	0.0297	3.5600e-003	4.0000e-004	3.9700e-003	0.0000	7.4675	7.4675	4.0000e-005	0.0000	7.4684
Worker	2.3900e-003	6.3600e-003	0.0559	1.9000e-004	0.0160	1.0000e-004	0.0161	4.2600e-003	1.0000e-004	4.3500e-003	0.0000	13.0545	13.0545	6.0000e-004	0.0000	13.0672
Total	4.0900e-003	0.0276	0.0681	2.9000e-004	0.0465	5.6000e-004	0.0471	7.9600e-003	5.2000e-004	8.4900e-003	0.0000	21.0047	21.0047	6.4000e-004	0.0000	21.0184

3.11 TL674A - General - 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	0.0430	0.2961	0.2971	4.8000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	41.1925	41.1925	3.4800e-003	0.0000	41.2656
Total	0.0430	0.2961	0.2971	4.8000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	41.1925	41.1925	3.4800e-003	0.0000	41.2656

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3800e-003	0.0792	0.0446	3.5000e-004	0.3938	1.7800e-003	0.3956	0.0419	1.6300e-003	0.0435	0.0000	30.1189	30.1189	1.8000e-004	0.0000	30.1226
Worker	8.0300e-003	0.0214	0.1877	6.5000e-004	0.0539	3.5000e-004	0.0542	0.0143	3.3000e-004	0.0146	0.0000	43.8777	43.8777	2.0300e-003	0.0000	43.9202
Total	0.0144	0.1006	0.2323	1.0000e-003	0.4477	2.1300e-003	0.4498	0.0562	1.9600e-003	0.0582	0.0000	73.9965	73.9965	2.2100e-003	0.0000	74.0428

3.11 TL674A - General - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0430	0.2961	0.2971	4.8000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	41.1924	41.1924	3.4800e-003	0.0000	41.2655
Total	0.0430	0.2961	0.2971	4.8000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	41.1924	41.1924	3.4800e-003	0.0000	41.2655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3800e-003	0.0792	0.0446	3.5000e-004	0.1181	1.7800e-003	0.1199	0.0144	1.6300e-003	0.0160	0.0000	30.1189	30.1189	1.8000e-004	0.0000	30.1226
Worker	8.0300e-003	0.0214	0.1877	6.5000e-004	0.0539	3.5000e-004	0.0542	0.0143	3.3000e-004	0.0146	0.0000	43.8777	43.8777	2.0300e-003	0.0000	43.9202
Total	0.0144	0.1006	0.2323	1.0000e-003	0.1719	2.1300e-003	0.1741	0.0287	1.9600e-003	0.0306	0.0000	73.9965	73.9965	2.2100e-003	0.0000	74.0428

3.12 C510 - Conductor/Cable Installation/Removal - 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	0.0279	0.3087	0.2490	3.7000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	33.4923	33.4923	0.0106	0.0000	33.7148
Total	0.0279	0.3087	0.2490	3.7000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	33.4923	33.4923	0.0106	0.0000	33.7148

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-004	0.0111	6.2600e-003	5.0000e-005	0.0553	2.5000e-004	0.0556	5.8900e-003	2.3000e-004	6.1200e-003	0.0000	4.2316	4.2316	3.0000e-005	0.0000	4.2321
Worker	2.2600e-003	6.0000e-003	0.0528	1.8000e-004	0.0151	1.0000e-004	0.0152	4.0200e-003	9.0000e-005	4.1100e-003	0.0000	12.3293	12.3293	5.7000e-004	0.0000	12.3412
Total	3.1600e-003	0.0171	0.0590	2.3000e-004	0.0705	3.5000e-004	0.0708	9.9100e-003	3.2000e-004	0.0102	0.0000	16.5608	16.5608	6.0000e-004	0.0000	16.5733

3.12 C510 - Conductor/Cable Installation/Removal - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0279	0.3087	0.2490	3.7000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	33.4923	33.4923	0.0106	0.0000	33.7148
Total	0.0279	0.3087	0.2490	3.7000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	33.4923	33.4923	0.0106	0.0000	33.7148

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-004	0.0111	6.2600e-003	5.0000e-005	0.0166	2.5000e-004	0.0168	2.0200e-003	2.3000e-004	2.2500e-003	0.0000	4.2316	4.2316	3.0000e-005	0.0000	4.2321
Worker	2.2600e-003	6.0000e-003	0.0528	1.8000e-004	0.0151	1.0000e-004	0.0152	4.0200e-003	9.0000e-005	4.1100e-003	0.0000	12.3293	12.3293	5.7000e-004	0.0000	12.3412
Total	3.1600e-003	0.0171	0.0590	2.3000e-004	0.0317	3.5000e-004	0.0321	6.0400e-003	3.2000e-004	6.3600e-003	0.0000	16.5608	16.5608	6.0000e-004	0.0000	16.5733

3.13 C738 - Conductor/Cable Installation/Removal - 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	0.0137	0.1513	0.1220	1.8000e-004		7.6200e-003	7.6200e-003		7.0100e-003	7.0100e-003	0.0000	16.4178	16.4178	5.1900e-003	0.0000	16.5269
Total	0.0137	0.1513	0.1220	1.8000e-004		7.6200e-003	7.6200e-003		7.0100e-003	7.0100e-003	0.0000	16.4178	16.4178	5.1900e-003	0.0000	16.5269

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.6000e-004	1.2000e-004	0.0000	4.1000e-004	0.0000	4.1000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0483	0.0483	0.0000	0.0000	0.0483
Vendor	6.6000e-004	8.1900e-003	4.6000e-003	4.0000e-005	0.0407	1.8000e-004	0.0409	4.3300e-003	1.7000e-004	4.5000e-003	0.0000	3.1115	3.1115	2.0000e-005	0.0000	3.1118
Worker	1.1100e-003	2.9400e-003	0.0259	9.0000e-005	7.4200e-003	5.0000e-005	7.4700e-003	1.9700e-003	4.0000e-005	2.0200e-003	0.0000	6.0438	6.0438	2.8000e-004	0.0000	6.0496
Total	1.7800e-003	0.0113	0.0306	1.3000e-004	0.0485	2.3000e-004	0.0487	6.3400e-003	2.1000e-004	6.5600e-003	0.0000	9.2035	9.2035	3.0000e-004	0.0000	9.2097

3.13 C738 - Conductor/Cable Installation/Removal - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0137	0.1513	0.1220	1.8000e-004		7.6200e-003	7.6200e-003		7.0100e-003	7.0100e-003	0.0000	16.4178	16.4178	5.1900e-003	0.0000	16.5269
Total	0.0137	0.1513	0.1220	1.8000e-004		7.6200e-003	7.6200e-003		7.0100e-003	7.0100e-003	0.0000	16.4178	16.4178	5.1900e-003	0.0000	16.5269

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	2.0000e-005	0.0000	0.0483	0.0483	0.0000	0.0000	0.0483
Vendor	6.6000e-004	8.1900e-003	4.6000e-003	4.0000e-005	0.0122	1.8000e-004	0.0124	1.4900e-003	1.7000e-004	1.6500e-003	0.0000	3.1115	3.1115	2.0000e-005	0.0000	3.1118
Worker	1.1100e-003	2.9400e-003	0.0259	9.0000e-005	7.4200e-003	5.0000e-005	7.4700e-003	1.9700e-003	4.0000e-005	2.0200e-003	0.0000	6.0438	6.0438	2.8000e-004	0.0000	6.0496
Total	1.7800e-003	0.0113	0.0306	1.3000e-004	0.0197	2.3000e-004	0.0200	3.4700e-003	2.1000e-004	3.6900e-003	0.0000	9.2035	9.2035	3.0000e-004	0.0000	9.2097

3.14 TL674A - Pole 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	0.0119	0.1513	0.1010	2.0000e-004		5.7900e-003	5.7900e-003		5.3200e-003	5.3200e-003	0.0000	17.8303	17.8303	5.6400e-003	0.0000	17.9487
Total	0.0119	0.1513	0.1010	2.0000e-004		5.7900e-003	5.7900e-003		5.3200e-003	5.3200e-003	0.0000	17.8303	17.8303	5.6400e-003	0.0000	17.9487

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-003	0.0174	9.7600e-003	8.0000e-005	0.0862	3.9000e-004	0.0866	9.1800e-003	3.6000e-004	9.5300e-003	0.0000	6.5963	6.5963	4.0000e-005	0.0000	6.5971
Worker	7.0000e-004	1.8700e-003	0.0165	6.0000e-005	4.7200e-003	3.0000e-005	4.7500e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.8438	3.8438	1.8000e-004	0.0000	3.8476
Total	2.1000e-003	0.0192	0.0262	1.4000e-004	0.0910	4.2000e-004	0.0914	0.0104	3.9000e-004	0.0108	0.0000	10.4401	10.4401	2.2000e-004	0.0000	10.4447

3.14 TL674A - Pole Installation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0119	0.1513	0.1010	2.0000e-004		5.7900e-003	5.7900e-003		5.3200e-003	5.3200e-003	0.0000	17.8302	17.8302	5.6400e-003	0.0000	17.9487
Total	0.0119	0.1513	0.1010	2.0000e-004		5.7900e-003	5.7900e-003		5.3200e-003	5.3200e-003	0.0000	17.8302	17.8302	5.6400e-003	0.0000	17.9487

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-003	0.0174	9.7600e-003	8.0000e-005	0.0259	3.9000e-004	0.0263	3.1500e-003	3.6000e-004	3.5100e-003	0.0000	6.5963	6.5963	4.0000e-005	0.0000	6.5971
Worker	7.0000e-004	1.8700e-003	0.0165	6.0000e-005	4.7200e-003	3.0000e-005	4.7500e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.8438	3.8438	1.8000e-004	0.0000	3.8476
Total	2.1000e-003	0.0192	0.0262	1.4000e-004	0.0306	4.2000e-004	0.0310	4.4000e-003	3.9000e-004	4.7900e-003	0.0000	10.4401	10.4401	2.2000e-004	0.0000	10.4447

3.15 TL674A - Underground 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	0.0289	0.3208	0.2587	3.9000e-004		0.0162	0.0162		0.0149	0.0149	0.0000	34.8057	34.8057	0.0110	0.0000	35.0370
Total	0.0289	0.3208	0.2587	3.9000e-004		0.0162	0.0162		0.0149	0.0149	0.0000	34.8057	34.8057	0.0110	0.0000	35.0370

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3000e-004	0.0116	6.5100e-003	5.0000e-005	0.0575	2.6000e-004	0.0578	6.1200e-003	2.4000e-004	6.3600e-003	0.0000	4.3975	4.3975	3.0000e-005	0.0000	4.3981
Worker	1.4100e-003	3.7400e-003	0.0329	1.1000e-004	9.4400e-003	6.0000e-005	9.5000e-003	2.5100e-003	6.0000e-005	2.5600e-003	0.0000	7.6877	7.6877	3.6000e-004	0.0000	7.6951
Total	2.3400e-003	0.0153	0.0394	1.6000e-004	0.0669	3.2000e-004	0.0673	8.6300e-003	3.0000e-004	8.9200e-003	0.0000	12.0852	12.0852	3.9000e-004	0.0000	12.0932

3.15 TL674A - Underground Cable Installation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0289	0.3208	0.2587	3.9000e-004		0.0162	0.0162		0.0149	0.0149	0.0000	34.8057	34.8057	0.0110	0.0000	35.0369
Total	0.0289	0.3208	0.2587	3.9000e-004		0.0162	0.0162		0.0149	0.0149	0.0000	34.8057	34.8057	0.0110	0.0000	35.0369

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3000e-004	0.0116	6.5100e-003	5.0000e-005	0.0172	2.6000e-004	0.0175	2.1000e-003	2.4000e-004	2.3400e-003	0.0000	4.3975	4.3975	3.0000e-005	0.0000	4.3981
Worker	1.4100e-003	3.7400e-003	0.0329	1.1000e-004	9.4400e-003	6.0000e-005	9.5000e-003	2.5100e-003	6.0000e-005	2.5600e-003	0.0000	7.6877	7.6877	3.6000e-004	0.0000	7.6951
Total	2.3400e-003	0.0153	0.0394	1.6000e-004	0.0267	3.2000e-004	0.0270	4.6100e-003	3.0000e-004	4.9000e-003	0.0000	12.0852	12.0852	3.9000e-004	0.0000	12.0932

3.16 TL674A - Reconfigure Tap - 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	3.2800e-003	0.0363	0.0293	4.0000e-005		1.8300e-003	1.8300e-003		1.6800e-003	1.6800e-003	0.0000	3.9403	3.9403	1.2500e-003	0.0000	3.9665
Total	3.2800e-003	0.0363	0.0293	4.0000e-005		1.8300e-003	1.8300e-003		1.6800e-003	1.6800e-003	0.0000	3.9403	3.9403	1.2500e-003	0.0000	3.9665

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	1.3100e-003	7.4000e-004	1.0000e-005	6.5100e-003	3.0000e-005	6.5400e-003	6.9000e-004	3.0000e-005	7.2000e-004	0.0000	0.4978	0.4978	0.0000	0.0000	0.4979
Worker	8.0000e-005	2.1000e-004	1.8600e-003	1.0000e-005	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4352	0.4352	2.0000e-005	0.0000	0.4356
Total	1.9000e-004	1.5200e-003	2.6000e-003	2.0000e-005	7.0400e-003	3.0000e-005	7.0800e-003	8.3000e-004	3.0000e-005	8.7000e-004	0.0000	0.9330	0.9330	2.0000e-005	0.0000	0.9335

3.16 TL674A - Reconfigure Tap - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2800e-003	0.0363	0.0293	4.0000e-005		1.8300e-003	1.8300e-003		1.6800e-003	1.6800e-003	0.0000	3.9403	3.9403	1.2500e-003	0.0000	3.9665
Total	3.2800e-003	0.0363	0.0293	4.0000e-005		1.8300e-003	1.8300e-003		1.6800e-003	1.6800e-003	0.0000	3.9403	3.9403	1.2500e-003	0.0000	3.9665

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	1.3100e-003	7.4000e-004	1.0000e-005	1.9500e-003	3.0000e-005	1.9800e-003	2.4000e-004	3.0000e-005	2.6000e-004	0.0000	0.4978	0.4978	0.0000	0.0000	0.4979
Worker	8.0000e-005	2.1000e-004	1.8600e-003	1.0000e-005	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4352	0.4352	2.0000e-005	0.0000	0.4356
Total	1.9000e-004	1.5200e-003	2.6000e-003	2.0000e-005	2.4800e-003	3.0000e-005	2.5200e-003	3.8000e-004	3.0000e-005	4.1000e-004	0.0000	0.9330	0.9330	2.0000e-005	0.0000	0.9335

3.17 TL666D - General - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2600e-003	0.0294	0.0295	5.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	4.0852	4.0852	3.5000e-004	0.0000	4.0925
Total	4.2600e-003	0.0294	0.0295	5.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	4.0852	4.0852	3.5000e-004	0.0000	4.0925

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2700e-003	0.0157	8.8400e-003	7.0000e-005	0.0781	3.5000e-004	0.0785	8.3100e-003	3.2000e-004	8.6300e-003	0.0000	5.9740	5.9740	4.0000e-005	0.0000	5.9747
Worker	9.6000e-004	2.5400e-003	0.0223	8.0000e-005	6.4100e-003	4.0000e-005	6.4500e-003	1.7000e-003	4.0000e-005	1.7400e-003	0.0000	5.2218	5.2218	2.4000e-004	0.0000	5.2269
Total	2.2300e-003	0.0183	0.0312	1.5000e-004	0.0845	3.9000e-004	0.0849	0.0100	3.6000e-004	0.0104	0.0000	11.1958	11.1958	2.8000e-004	0.0000	11.2016

3.17 TL666D - General - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2600e-003	0.0294	0.0295	5.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	4.0852	4.0852	3.5000e-004	0.0000	4.0925
Total	4.2600e-003	0.0294	0.0295	5.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	4.0852	4.0852	3.5000e-004	0.0000	4.0925

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2700e-003	0.0157	8.8400e-003	7.0000e-005	0.0234	3.5000e-004	0.0238	2.8500e-003	3.2000e-004	3.1800e-003	0.0000	5.9740	5.9740	4.0000e-005	0.0000	5.9747
Worker	9.6000e-004	2.5400e-003	0.0223	8.0000e-005	6.4100e-003	4.0000e-005	6.4500e-003	1.7000e-003	4.0000e-005	1.7400e-003	0.0000	5.2218	5.2218	2.4000e-004	0.0000	5.2269
Total	2.2300e-003	0.0183	0.0312	1.5000e-004	0.0298	3.9000e-004	0.0302	4.5500e-003	3.6000e-004	4.9200e-003	0.0000	11.1958	11.1958	2.8000e-004	0.0000	11.2016

3.18 TL666D - Conductor Removal - 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	0.0295	0.3269	0.2636	3.9000e-004		0.0165	0.0165		0.0151	0.0151	0.0000	35.4624	35.4624	0.0112	0.0000	35.6981
Total	0.0295	0.3269	0.2636	3.9000e-004		0.0165	0.0165		0.0151	0.0151	0.0000	35.4624	35.4624	0.0112	0.0000	35.6981

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	5.8900e-003	3.3200e-003	3.0000e-005	0.0293	1.3000e-004	0.0294	3.1200e-003	1.2000e-004	3.2400e-003	0.0000	2.2403	2.2403	1.0000e-005	0.0000	2.2405
Worker	3.6000e-004	9.5000e-004	8.3800e-003	3.0000e-005	2.4000e-003	2.0000e-005	2.4200e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.9582	1.9582	9.0000e-005	0.0000	1.9601
Total	8.3000e-004	6.8400e-003	0.0117	6.0000e-005	0.0317	1.5000e-004	0.0318	3.7600e-003	1.3000e-004	3.8900e-003	0.0000	4.1984	4.1984	1.0000e-004	0.0000	4.2006

3.18 TL666D - Conductor Removal - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0295	0.3269	0.2636	3.9000e-004		0.0165	0.0165		0.0151	0.0151	0.0000	35.4624	35.4624	0.0112	0.0000	35.6980
Total	0.0295	0.3269	0.2636	3.9000e-004		0.0165	0.0165		0.0151	0.0151	0.0000	35.4624	35.4624	0.0112	0.0000	35.6980

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	5.8900e-003	3.3200e-003	3.0000e-005	8.7800e-003	1.3000e-004	8.9200e-003	1.0700e-003	1.2000e-004	1.1900e-003	0.0000	2.2403	2.2403	1.0000e-005	0.0000	2.2405
Worker	3.6000e-004	9.5000e-004	8.3800e-003	3.0000e-005	2.4000e-003	2.0000e-005	2.4200e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.9582	1.9582	9.0000e-005	0.0000	1.9601
Total	8.3000e-004	6.8400e-003	0.0117	6.0000e-005	0.0112	1.5000e-004	0.0113	1.7100e-003	1.3000e-004	1.8400e-003	0.0000	4.1984	4.1984	1.0000e-004	0.0000	4.2006

3.19 TL666D - Pole Removal/Modification - 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	0.0499	0.5122	0.3466	7.7000e-004		0.0242	0.0242		0.0230	0.0230	0.0000	68.5114	68.5114	0.0171	0.0000	68.8707
Total	0.0499	0.5122	0.3466	7.7000e-004		0.0242	0.0242		0.0230	0.0230	0.0000	68.5114	68.5114	0.0171	0.0000	68.8707

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	3.1000e-004	2.5000e-004	0.0000	8.1000e-004	0.0000	8.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0965	0.0965	0.0000	0.0000	0.0966
Vendor	1.0500e-003	0.0131	7.3700e-003	6.0000e-005	0.0651	2.9000e-004	0.0654	6.9300e-003	2.7000e-004	7.2000e-003	0.0000	4.9783	4.9783	3.0000e-005	0.0000	4.9789
Worker	5.3000e-004	1.4100e-003	0.0124	4.0000e-005	3.5600e-003	2.0000e-005	3.5800e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	2.9010	2.9010	1.3000e-004	0.0000	2.9038
Total	1.6000e-003	0.0148	0.0200	1.0000e-004	0.0695	3.1000e-004	0.0698	7.9700e-003	2.9000e-004	8.2600e-003	0.0000	7.9759	7.9759	1.6000e-004	0.0000	7.9793

3.19 TL666D - Pole Removal/Modification - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0499	0.5122	0.3466	7.7000e-004		0.0242	0.0242		0.0230	0.0230	0.0000	68.5113	68.5113	0.0171	0.0000	68.8706
Total	0.0499	0.5122	0.3466	7.7000e-004		0.0242	0.0242		0.0230	0.0230	0.0000	68.5113	68.5113	0.0171	0.0000	68.8706

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	3.1000e-004	2.5000e-004	0.0000	2.4000e-004	0.0000	2.5000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0965	0.0965	0.0000	0.0000	0.0966
Vendor	1.0500e-003	0.0131	7.3700e-003	6.0000e-005	0.0195	2.9000e-004	0.0198	2.3800e-003	2.7000e-004	2.6500e-003	0.0000	4.9783	4.9783	3.0000e-005	0.0000	4.9789
Worker	5.3000e-004	1.4100e-003	0.0124	4.0000e-005	3.5600e-003	2.0000e-005	3.5800e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	2.9010	2.9010	1.3000e-004	0.0000	2.9038
Total	1.6000e-003	0.0148	0.0200	1.0000e-004	0.0233	3.1000e-004	0.0236	3.3600e-003	2.9000e-004	3.6500e-003	0.0000	7.9759	7.9759	1.6000e-004	0.0000	7.9793

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Total					

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

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

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

6.0 Area Detail

6.1 Mitigation Measures Area

6.2 Area by SubCategory

Mitigated

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

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

TL674A Reconfiguration & TL666D Removal Project
San Diego County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
C510 - Conductor/Cable Installation/Removal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C510 - Duct Bank	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C510 - Foundation Installation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C510 - General	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C510 - Pole Installation/Removal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C738 - Conductor/Cable Installation/Removal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C738 - Duct Bank	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C738 - General	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C738 - Pole Installation and Removal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL666D - Conductor Removal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL666D - General	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL666D - Pole Removal/Modification	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL674A - Duct Bank	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL674A - Foundation Installation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL674A - General	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL674A - Pole Installation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL674A - Reconfigure Tap	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TL674A - Underground Cable Installation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	17	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	0	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	6	No Change	0.00
Cranes	Diesel	No Change	0	15	No Change	0.00
Forklifts	Diesel	No Change	0	0	No Change	0.00
Graders	Diesel	No Change	0	0	No Change	0.00
Pavers	Diesel	No Change	0	0	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	0	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00
Aerial Lifts	Diesel	No Change	0	20	No Change	0.00
Bore/Drill Rigs	Diesel	No Change	0	11	No Change	0.00
Other Construction Equipment	Diesel	No Change	0	12	No Change	0.00
Plate Compactors	Diesel	No Change	0	11	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Aerial Lifts	1.24700E-002	2.08530E-001	3.34710E-001	5.10000E-004	5.12000E-003	4.71000E-003	0.00000E+000	4.61899E+001	4.61899E+001	1.46100E-002	0.00000E+000	4.64968E+001
Air Compressors	9.98300E-002	6.87660E-001	6.89880E-001	1.11000E-003	4.82400E-002	4.82400E-002	0.00000E+000	9.56619E+001	9.56619E+001	8.08000E-003	0.00000E+000	9.58316E+001
Bore/Drill Rigs	4.74800E-002	6.27380E-001	3.51250E-001	1.59000E-003	1.77900E-002	1.63700E-002	0.00000E+000	1.42952E+002	1.42952E+002	4.52300E-002	0.00000E+000	1.43902E+002
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	1.36300E-002	1.05860E-001	1.09220E-001	1.80000E-004	6.77000E-003	6.77000E-003	0.00000E+000	1.58609E+001	1.58609E+001	1.12000E-003	0.00000E+000	1.58843E+001
Cranes	1.10420E-001	1.31601E+000	5.02360E-001	1.26000E-003	5.57800E-002	5.13200E-002	0.00000E+000	1.13526E+002	1.13526E+002	3.59200E-002	0.00000E+000	1.14280E+002
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Other Construction Equipment	9.75700E-002	1.04968E+000	7.71010E-001	1.15000E-003	5.52800E-002	5.08600E-002	0.00000E+000	1.03203E+002	1.03203E+002	3.26500E-002	0.00000E+000	1.03889E+002
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Plate Compactors	9.66000E-003	6.05200E-002	5.06800E-002	1.20000E-004	2.35000E-003	2.35000E-003	0.00000E+000	7.53242E+000	7.53242E+000	7.80000E-004	0.00000E+000	7.54884E+000
Rollers	5.50000E-003	5.43800E-002	4.62900E-002	6.00000E-005	3.58000E-003	3.29000E-003	0.00000E+000	5.71718E+000	5.71718E+000	1.81000E-003	0.00000E+000	5.75517E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	3.88000E-002	3.89590E-001	3.83800E-001	5.20000E-004	2.60100E-002	2.39300E-002	0.00000E+000	4.65026E+001	4.65026E+001	1.47100E-002	0.00000E+000	4.68116E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Aerial Lifts	1.24700E-002	2.08530E-001	3.34710E-001	5.10000E-004	5.12000E-003	4.71000E-003	0.00000E+000	4.61899E+001	4.61899E+001	1.46100E-002	0.00000E+000	4.64968E+001
Air Compressors	9.98300E-002	6.87660E-001	6.89880E-001	1.11000E-003	4.82400E-002	4.82400E-002	0.00000E+000	9.56618E+001	9.56618E+001	8.08000E-003	0.00000E+000	9.58315E+001
Bore/Drill Rigs	4.74800E-002	6.27380E-001	3.51250E-001	1.59000E-003	1.77900E-002	1.63700E-002	0.00000E+000	1.42952E+002	1.42952E+002	4.52300E-002	0.00000E+000	1.43902E+002
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	1.36300E-002	1.05860E-001	1.09210E-001	1.80000E-004	6.77000E-003	6.77000E-003	0.00000E+000	1.58609E+001	1.58609E+001	1.12000E-003	0.00000E+000	1.58843E+001
Cranes	1.10420E-001	1.31601E+000	5.02360E-001	1.26000E-003	5.57800E-002	5.13200E-002	0.00000E+000	1.13525E+002	1.13525E+002	3.59200E-002	0.00000E+000	1.14280E+002
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Other Construction Equipment	9.75700E-002	1.04968E+000	7.71010E-001	1.15000E-003	5.52800E-002	5.08600E-002	0.00000E+000	1.03203E+002	1.03203E+002	3.26500E-002	0.00000E+000	1.03889E+002
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Plate Compactors	9.66000E-003	6.05200E-002	5.06800E-002	1.20000E-004	2.35000E-003	2.35000E-003	0.00000E+000	7.53241E+000	7.53241E+000	7.80000E-004	0.00000E+000	7.54883E+000
Rollers	5.50000E-003	5.43800E-002	4.62900E-002	6.00000E-005	3.58000E-003	3.29000E-003	0.00000E+000	5.71718E+000	5.71718E+000	1.81000E-003	0.00000E+000	5.75516E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Balckhoes	3.88000E-002	3.89590E-001	3.83800E-001	5.20000E-004	2.60100E-002	2.39300E-002	0.00000E+000	4.65026E+001	4.65026E+001	1.47100E-002	0.00000E+000	4.68115E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Aerial Lifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.08249E-006	1.08249E-006	0.00000E+000	0.00000E+000	1.29041E-006
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25442E-006	1.25442E-006	0.00000E+000	0.00000E+000	1.14785E-006
Bore/Drill Rigs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18921E-006	1.18921E-006	0.00000E+000	0.00000E+000	1.18136E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	9.15583E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.26096E-006	1.26096E-006	0.00000E+000	0.00000E+000	1.25910E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14512E-006	1.14512E-006	0.00000E+000	0.00000E+000	1.13756E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Other Construction Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16275E-006	1.16275E-006	0.00000E+000	0.00000E+000	1.15508E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Plate Compactors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.32759E-006	1.32759E-006	0.00000E+000	0.00000E+000	1.32471E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.73757E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07521E-006	1.07521E-006	0.00000E+000	0.00000E+000	1.06811E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	55.00	PM2.5 Reduction	55.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00

No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
C510 - Conductor/Cable Installation/Removal	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
C510 - Conductor/Cable Installation/Removal	Roads	0.07	0.01	0.03	0.01	0.55	0.39
C510 - Duct Bank	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
C510 - Duct Bank	Roads	0.11	0.01	0.04	0.01	0.62	0.50
C510 - Foundation Installation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
C510 - Foundation Installation	Roads	0.04	0.01	0.02	0.00	0.56	0.40
C510 - General	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
C510 - General	Roads	0.13	0.02	0.05	0.01	0.65	0.54
C510 - Pole Installation/Removal	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
C510 - Pole Installation/Removal	Roads	0.10	0.01	0.04	0.01	0.59	0.45
C738 - Conductor/Cable Installation/Removal	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
C738 - Conductor/Cable Installation/Removal	Roads	0.05	0.01	0.02	0.00	0.59	0.45
C738 - Duct Bank	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
C738 - Duct Bank	Roads	0.05	0.01	0.02	0.00	0.58	0.44
C738 - General	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
C738 - General	Roads	0.09	0.01	0.04	0.01	0.58	0.43
C738 - Pole Installation and Removal	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
C738 - Pole Installation and Removal	Roads	0.05	0.01	0.02	0.00	0.59	0.45

TL666D - Conductor Removal	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
TL666D - Conductor Removal	Roads	0.03	0.00	0.01	0.00	0.65	0.55
TL666D - General	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
TL666D - General	Roads	0.08	0.01	0.03	0.00	0.65	0.55
TL666D - Pole Removal/Modification	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
TL666D - Pole Removal/Modification	Roads	0.07	0.01	0.02	0.00	0.66	0.58
TL674A - Duct Bank	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
TL674A - Duct Bank	Roads	0.36	0.04	0.12	0.02	0.67	0.58
TL674A - Foundation Installation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
TL674A - Foundation Installation	Roads	0.12	0.02	0.05	0.01	0.60	0.47
TL674A - General	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
TL674A - General	Roads	0.45	0.06	0.17	0.03	0.62	0.49
TL674A - Pole Installation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
TL674A - Pole Installation	Roads	0.09	0.01	0.03	0.00	0.66	0.58
TL674A - Reconfigure Tap	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
TL674A - Reconfigure Tap	Roads	0.01	0.00	0.00	0.00	0.65	0.54
TL674A - Underground Cable Installation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
TL674A - Underground Cable Installation	Roads	0.07	0.01	0.03	0.00	0.60	0.47

Operational Percent Reduction Summary

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

Operational Mobile Mitigation

Project Setting:

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

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

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

Area Mitigation

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

Energy Mitigation Measures

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

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00

DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

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

Solid Waste Mitigation

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

Attachment 2

Air Quality Helicopter Emissions

Conducted 2018

TL674A RECONFIGURATION AND TL666D REMOVAL PROJECT

Appendix , Air Quality Emissions Report

Air Quality helicopter emission estimates during construction of the proposed project.

Emissions Summary

Source	VOC (lb/day)	CO (lb/day)	NOX (lb/day)	SOX (lb/day)	PM10 (lb/day)	PM2.5 (lb/day)
Total	25.81	31.92	67.80	31.38	1.89	1.89

Helicopter Summary

Equipment	Horse-power	Number	Days Used	Hours Used/Day
Kaman K-Max (K-1200) Helicopter	1500	1	10	8
Hughes 500 E Helicopter	317	1	10	8

Helicopter Exhaust Emission Factors

Equipment	Horse-power	VOC (lb/hr) ^a	CO (lb/hr) ^a	NOX (lb/hr) ^a	SOX (lb/hr) ^c	PM10 (lb/hr) ^a	PM2.5 (lb/hr) ^b
Hughes 500 E Helicopter	317	2.106	2.645	1.067	1.307	0.035	0.035
Kaman K-Max (K-1200) Helicopter	1500	1.12	1.345	7.408	2.615	0.201	0.201

^a From Guidance on the Determination of Helicopter Emissions, Federal Department of the Environment, Transport, Energy and Communications, DETEC, Federal Office of Civil Aviation FOCA, Division Aviation Policy and Strategy, Swiss Confederation, 2015.

<https://www.bazl.admin.ch/bazl/en/home/specialists/regulations-and-guidelines/environment/pollutant-emissions/aircraft-engine-emissions/guidance-on-the-determination-of-helicopter-emissions.html>.

^b Diesel PM2.5 emission factor [lb/hr] = PM10 emission factor [lb/hr] x PM2.5 fraction of PM10

PM2.5 Fraction= 0.920

From Appendix A, Final-Methodology to Calculate Particulate Matter (PM) 2.5

and PM 2.5 Significance Thresholds, SCAQMD, October 2006,

http://www.aqmd.gov/ceqa/handbook/PM2_5/PM2_5.html

^c All except SOx and PM2.5 from Guidance on the Determination of Helicopter Emissions, Federal Department of the Environment, Transport, Energy and Communications, DETEC, Federal Office of Civil Aviation FOCA, Division Aviation Policy and Strategy, Swiss Confederation, 2015.

<https://www.bazl.admin.ch/bazl/en/home/specialists/regulations-and-guidelines/environment/pollutant-emissions/aircraft-engine-emissions/guidance-on-the-determination-of-helicopter-emissions.html>.

PM2.5 emissions assumed equal to PM10

SOx emissions [lb/hr] = Fuel use [kg/hr] x 1000 [g/kg] / 453.6 [g/lb] x Fuel sulfur [wt. %] / 100 x 2 [lb SO2/lbS]

Fuel use = 98.8 kg/hr from Guidance on the Determination of Helicopter Emissions

Fuel sulfur = 0.3% from ASTM D-1655 for Jet-A

The kaman K-Max (K-1200) helicopter is also a single engine helicopter with more horsepower compared to the Hughes 500; therefore, it is assumed that an increase of fuel consumption would occur during use. Hence, fuel use is doubled to = 197.6 kg/hr for the Kaman K-Max (K-1200) Helicopter

Construction Equipment Daily Criteria Pollutant Exhaust Emissions

Equipment	VOC (lb/day) ^a	CO (lb/day) ^a	NOX (lb/day) ^a	SOX (lb/day) ^a	PM10 (lb/day) ^a	PM2.5 (lb/day) ^a
Hughes 500 E Helicopter	16.84844	21.16131	8.532313	10.45883	0.283303	0.283303
Kaman K-Max (K-1200) Helicopter	8.96	10.76	59.264	20.91766	1.608	1.608

a Emissions [lb/day] = number x hours/day x emission factor [lb/hr]

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