

# Appendix A

## Air Emissions Calculations

## Summary of Construction Emissions

### Annual Emissions (Calculated by CalEEMod)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	Fugitive PM2.5	Exhaust PM2.5	CO2e
Year	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr	MT/yr
2019	0.350	5.983	2.822	0.016	0.446	0.108	0.117	0.101	1541.299
2020	0.362	6.436	2.953	0.019	0.509	0.100	0.138	0.096	1823.960
2021	0.006	0.141	0.044	0.001	0.016	0.001	0.004	0.001	49.339

### Average Daily Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	Fugitive PM2.5	Exhaust PM2.5	CO2e
Year	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
2019	1.92	32.78	15.46	0.09	2.45	0.59	0.64	0.56	9309.39
2020	1.98	35.26	16.18	0.11	2.79	0.55	0.75	0.52	11016.64
2021	0.40	9.39	2.92	0.03	1.04	0.04	0.28	0.04	3625.72

**Summary of Operational Emissions- Emergency Generator (Diesel)**

Generator size 469 hp 24.9 gallon/hour  
 Operating Hours (routine testing and maintenance) 2 hours/day  
 50 hours/year

**Generator Criteria Pollutants Emissions(2021 and beyond)**

	ROG	CO	NOX	SO2	PM10	PM2.5
Emission factor (g/hp-hr)	0.012	1.4	4.5	0.006	0.1	0.1
Daily Emissions (lb/day)	0.026	2.895	9.306	0.012	0.207	0.207
Annual Emissions (tons/year)	0.0003	0.036	0.116	0.0002	0.003	0.003

Note:

Emergency generator emissions were estimated based on the operating hours of routine testing and maintenance.  
 Criteria pollutants emission factors were based on Technical Spec Sheet of Caterpillar C13 350 kW generator.

**Generator GHG Emissions (2021 and beyond)**

	CO2	CH4	N2O	CO2e
Emission Factor (g/gallon)	10210	0.41	0.08	10242.7
Metric ton/year	12.711	0.0005	0.0001	12.8
Global Warming Potential	1	28	265	

Note:

Greenhouse gas emission factors of the generator was obtained from EPA Greenhouse Gas Emission Factors  
[https://www.epa.gov/sites/production/files/2018-03/documents/emission-factors\\_mar\\_2018\\_0.pdf](https://www.epa.gov/sites/production/files/2018-03/documents/emission-factors_mar_2018_0.pdf)

**Electricity Usage GHG Emissions (2021 and beyond)**

	CO2	CH4	N2O	CO2e
Emission Factors (lb/MWH)	527.86	0.033	0.004	529.8
Metric ton/year	3.56	0.00	0.000	3.6
Global Warming Potential	1	28	265	

Note:

- GHG emission factors were from EPA eGrid, Subregion Emissions – Greenhouse Gases (eGRID2016), for WECC California.
  - The global warming potential was from the IPCC Fifth Assessment Report, 2014 (AR5)
2. Power demand total increase 14,848 KWH/year

Breakdown:

Dewatering Pumps: 300 KWh  
 Odor Control: 8760 KWh  
 Electrical Building HVAC: 2372 KWh  
 Mechanical Vault Ventilation: 3416 KWh

Total GHG Emissions

	CO2e (Metric tons/year)
Generator	12.8
Electricity Usage	3.6
<b>Total GHG Emissions</b>	<b>16.3</b>



Off-road Equipment - project specific

Off-road Equipment - project specific

Off-road Equipment - project specific

Trips and VMT - project specific

Demolition - estimated based on 4000 cy debris X 0.5 ton/cy

Grading - project specific

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2019	3-31-2019	0.2078	0.2078
6	4-1-2020	6-30-2020	0.1172	0.1172
7	7-1-2020	9-30-2020	0.2422	0.2422
		Highest	0.2422	0.2422

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	1. Contractor Mobilization	Site Preparation	1/1/2019	2/28/2019	5	43	
2	3. Demolition of existing structure	Demolition	2/1/2019	3/31/2019	5	41	
3	2. Temp Install fencing and barrier	Site Preparation	2/1/2019	2/28/2019	5	20	
4	4. Remove pavement	Site Preparation	3/1/2019	3/31/2019	5	21	
5	5. Shoring installation	Site Preparation	4/1/2019	5/31/2019	5	45	
6	6. Excavation	Site Preparation	5/1/2019	7/31/2019	5	66	
7	7. Pier installation	Site Preparation	6/1/2019	8/31/2019	5	65	
8	8. Diversion sewer installation	Site Preparation	7/1/2019	7/31/2020	5	285	
9	10. Concrete walls	Building Construction	11/1/2019	2/28/2020	5	86	
10	11. Concrete roof	Building Construction	2/1/2020	3/31/2020	5	42	
11	13. Mechanical work	Building Construction	3/1/2020	5/31/2020	5	65	
12	12. Backfill	Grading	4/1/2020	5/31/2020	5	43	
13	14. Electrical work	Building Construction	5/1/2020	7/31/2020	5	66	
14	15. Re paving	Paving	6/1/2020	8/31/2020	5	66	
15	9. Concrete bottom Slab	Building Construction	9/1/2020	11/30/2020	5	65	
16	16. Demobilization	Building Construction	1/1/2021	1/31/2021	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1. Contractor Mobilization	Tractors/Loaders/Backhoes	1	8.00	165	0.37
3. Demolition of existing structure	Excavators	1	8.00	164	0.38

2. Temp Install fencing and barrier	Excavators	1	8.00	164	0.38
4. Remove pavement	Excavators	1	8.00	164	0.38
4. Remove pavement	Tractors/Loaders/Backhoes	1	8.00	165	0.37
5. Shoring installation	Bore/Drill Rigs	2	8.00	115	0.50
5. Shoring installation	Cranes	2	8.00	260	0.29
5. Shoring installation	Excavators	1	8.00	300	0.38
6. Excavation	Cranes	1	4.00	260	0.29
6. Excavation	Excavators	2	8.00	300	0.38
7. Pier installation	Cranes	1	4.00	260	0.29
8. Diversion sewer installation	Excavators	1	8.00	300	0.38
8. Diversion sewer installation	Excavators	1	2.00	164	0.38
8. Diversion sewer installation	Generator Sets	1	8.00	84	0.74
8. Diversion sewer installation	Tractors/Loaders/Backhoes	1	4.00	165	0.37
9. Concrete bottom Slab	Cranes	1	4.00	260	0.29
9. Concrete bottom Slab	Pumps	2	8.00	60	0.74
10. Concrete walls	Cranes	1	4.00	260	0.29
10. Concrete walls	Pumps	2	8.00	60	0.74
11. Concrete roof	Cranes	1	4.00	260	0.29
11. Concrete roof	Pumps	2	8.00	60	0.74
12. Backfill	Excavators	1	8.00	300	0.38
12. Backfill	Excavators	1	8.00	164	0.38
12. Backfill	Tractors/Loaders/Backhoes	1	8.00	165	0.37
15. Re paving	Cement and Mortar Mixers	4	6.00	9	0.56
15. Re paving	Pavers	1	7.00	130	0.42
15. Re paving	Rollers	1	7.00	80	0.38
15. Re paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
1. Contractor Mobilization	Excavators	1	8.00	164	0.38

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1. Contractor Mobilization	2	20.00	0.00	240.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
3. Demolition of existing structure	1	20.00	0.00	400.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
2. Temp Install fencing and barrier	1	20.00	0.00	400.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
4. Remove pavement	2	20.00	0.00	75.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
5. Shoring installation	5	20.00	0.00	1,600.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
6. Excavation	3	20.00	0.00	5,628.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
7. Pier installation	1	20.00	0.00	1,000.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
8. Diversion sewer installation	4	20.00	0.00	2,033.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
9. Concrete bottom Slab	3	20.00	0.00	4,210.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
10. Concrete walls	3	20.00	0.00	4,309.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
11. Concrete roof	3	20.00	0.00	3,505.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
13. Mechanical work	0	20.00	0.00	1,500.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
12. Backfill	3	20.00	0.00	2,400.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
14. Electrical work	0	20.00	0.00	1,000.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
15. Re paving	7	20.00	0.00	300.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT
16. Demobilization	0	20.00		520.00	30.00	7.30	50.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 1. Contractor Mobilization - 2019**

**Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1243	0.1451	2.3000e-004		6.1300e-003	6.1300e-003		5.6400e-003	5.6400e-003	0.0000	20.3846	20.3846	6.4500e-003	0.0000	20.5458
<b>Total</b>	<b>0.0121</b>	<b>0.1243</b>	<b>0.1451</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>6.1300e-003</b>	<b>6.1300e-003</b>	<b>0.0000</b>	<b>5.6400e-003</b>	<b>5.6400e-003</b>	<b>0.0000</b>	<b>20.3846</b>	<b>20.3846</b>	<b>6.4500e-003</b>	<b>0.0000</b>	<b>20.5458</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3700e-003	0.0764	0.0157	2.2000e-004	5.0600e-003	3.4000e-004	5.4100e-003	1.3900e-003	3.3000e-004	1.7200e-003	0.0000	21.5176	21.5176	9.3000e-004	0.0000	21.5408
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5700e-003	2.9200e-003	0.0285	9.0000e-005	9.4300e-003	6.0000e-005	9.4900e-003	2.5100e-003	6.0000e-005	2.5600e-003	0.0000	8.3777	8.3777	2.1000e-004	0.0000	8.3830
<b>Total</b>	<b>5.9400e-003</b>	<b>0.0793</b>	<b>0.0442</b>	<b>3.1000e-004</b>	<b>0.0145</b>	<b>4.0000e-004</b>	<b>0.0149</b>	<b>3.9000e-003</b>	<b>3.9000e-004</b>	<b>4.2800e-003</b>	<b>0.0000</b>	<b>29.8953</b>	<b>29.8953</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>29.9237</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1243	0.1451	2.3000e-004		6.1300e-003	6.1300e-003		5.6400e-003	5.6400e-003	0.0000	20.3846	20.3846	6.4500e-003	0.0000	20.5458
<b>Total</b>	<b>0.0121</b>	<b>0.1243</b>	<b>0.1451</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>6.1300e-003</b>	<b>6.1300e-003</b>	<b>0.0000</b>	<b>5.6400e-003</b>	<b>5.6400e-003</b>	<b>0.0000</b>	<b>20.3846</b>	<b>20.3846</b>	<b>6.4500e-003</b>	<b>0.0000</b>	<b>20.5458</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3700e-003	0.0764	0.0157	2.2000e-004	5.0600e-003	3.4000e-004	5.4100e-003	1.3900e-003	3.3000e-004	1.7200e-003	0.0000	21.5176	21.5176	9.3000e-004	0.0000	21.5408
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5700e-003	2.9200e-003	0.0285	9.0000e-005	9.4300e-003	6.0000e-005	9.4900e-003	2.5100e-003	6.0000e-005	2.5600e-003	0.0000	8.3777	8.3777	2.1000e-004	0.0000	8.3830
<b>Total</b>	<b>5.9400e-003</b>	<b>0.0793</b>	<b>0.0442</b>	<b>3.1000e-004</b>	<b>0.0145</b>	<b>4.0000e-004</b>	<b>0.0149</b>	<b>3.9000e-003</b>	<b>3.9000e-004</b>	<b>4.2800e-003</b>	<b>0.0000</b>	<b>29.8953</b>	<b>29.8953</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>29.9237</b>

**3.3.3. Demolition of existing structure - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0214	0.0000	0.0214	3.2400e-003	0.0000	3.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5500e-003	0.0571	0.0694	1.1000e-004		2.7500e-003	2.7500e-003		2.5300e-003	2.5300e-003	0.0000	9.8665	9.8665	3.1200e-003	0.0000	9.9446
<b>Total</b>	<b>5.5500e-003</b>	<b>0.0571</b>	<b>0.0694</b>	<b>1.1000e-004</b>	<b>0.0214</b>	<b>2.7500e-003</b>	<b>0.0242</b>	<b>3.2400e-003</b>	<b>2.5300e-003</b>	<b>5.7700e-003</b>	<b>0.0000</b>	<b>9.8665</b>	<b>9.8665</b>	<b>3.1200e-003</b>	<b>0.0000</b>	<b>9.9446</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9500e-003	0.1273	0.0261	3.7000e-004	8.4400e-003	5.7000e-004	9.0100e-003	2.3200e-003	5.5000e-004	2.8700e-003	0.0000	35.8626	35.8626	1.5500e-003	0.0000	35.9013
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-003	2.7900e-003	0.0272	9.0000e-005	8.9900e-003	6.0000e-005	9.0500e-003	2.3900e-003	5.0000e-005	2.4400e-003	0.0000	7.9881	7.9881	2.0000e-004	0.0000	7.9930
<b>Total</b>	<b>7.3500e-003</b>	<b>0.1301</b>	<b>0.0533</b>	<b>4.6000e-004</b>	<b>0.0174</b>	<b>6.3000e-004</b>	<b>0.0181</b>	<b>4.7100e-003</b>	<b>6.0000e-004</b>	<b>5.3100e-003</b>	<b>0.0000</b>	<b>43.8507</b>	<b>43.8507</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>43.8943</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0214	0.0000	0.0214	3.2400e-003	0.0000	3.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5500e-003	0.0571	0.0694	1.1000e-004		2.7500e-003	2.7500e-003		2.5300e-003	2.5300e-003	0.0000	9.8665	9.8665	3.1200e-003	0.0000	9.9446
<b>Total</b>	<b>5.5500e-003</b>	<b>0.0571</b>	<b>0.0694</b>	<b>1.1000e-004</b>	<b>0.0214</b>	<b>2.7500e-003</b>	<b>0.0242</b>	<b>3.2400e-003</b>	<b>2.5300e-003</b>	<b>5.7700e-003</b>	<b>0.0000</b>	<b>9.8665</b>	<b>9.8665</b>	<b>3.1200e-003</b>	<b>0.0000</b>	<b>9.9446</b>



**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9500e-003	0.1273	0.0261	3.7000e-004	8.4400e-003	5.7000e-004	9.0100e-003	2.3200e-003	5.5000e-004	2.8700e-003	0.0000	35.8626	35.8626	1.5500e-003	0.0000	35.9013
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-003	2.7900e-003	0.0272	9.0000e-005	8.9900e-003	6.0000e-005	9.0500e-003	2.3900e-003	5.0000e-005	2.4400e-003	0.0000	7.9881	7.9881	2.0000e-004	0.0000	7.9930
<b>Total</b>	<b>7.3500e-003</b>	<b>0.1301</b>	<b>0.0533</b>	<b>4.6000e-004</b>	<b>0.0174</b>	<b>6.3000e-004</b>	<b>0.0181</b>	<b>4.7100e-003</b>	<b>6.0000e-004</b>	<b>5.3100e-003</b>	<b>0.0000</b>	<b>43.8507</b>	<b>43.8507</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>43.8943</b>

**3.4 2. Temp Install fencing and barrier - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7100e-003	0.0278	0.0339	5.0000e-005		1.3400e-003	1.3400e-003		1.2400e-003	1.2400e-003	0.0000	4.8129	4.8129	1.5200e-003	0.0000	4.8510
<b>Total</b>	<b>2.7100e-003</b>	<b>0.0278</b>	<b>0.0339</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.2400e-003</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>4.8129</b>	<b>4.8129</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>4.8510</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9500e-003	0.1273	0.0261	3.7000e-004	8.4400e-003	5.7000e-004	9.0100e-003	2.3200e-003	5.5000e-004	2.8700e-003	0.0000	35.8626	35.8626	1.5500e-003	0.0000	35.9013
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6600e-003	1.3600e-003	0.0133	4.0000e-005	4.3900e-003	3.0000e-005	4.4100e-003	1.1700e-003	3.0000e-005	1.1900e-003	0.0000	3.8966	3.8966	1.0000e-004	0.0000	3.8991
<b>Total</b>	<b>5.6100e-003</b>	<b>0.1287</b>	<b>0.0393</b>	<b>4.1000e-004</b>	<b>0.0128</b>	<b>6.0000e-004</b>	<b>0.0134</b>	<b>3.4900e-003</b>	<b>5.8000e-004</b>	<b>4.0600e-003</b>	<b>0.0000</b>	<b>39.7592</b>	<b>39.7592</b>	<b>1.6500e-003</b>	<b>0.0000</b>	<b>39.8003</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7100e-003	0.0278	0.0339	5.0000e-005		1.3400e-003	1.3400e-003		1.2400e-003	1.2400e-003	0.0000	4.8129	4.8129	1.5200e-003	0.0000	4.8510
<b>Total</b>	<b>2.7100e-003</b>	<b>0.0278</b>	<b>0.0339</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>1.2400e-003</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>4.8129</b>	<b>4.8129</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>4.8510</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.9500e-003	0.1273	0.0261	3.7000e-004	8.4400e-003	5.7000e-004	9.0100e-003	2.3200e-003	5.5000e-004	2.8700e-003	0.0000	35.8626	35.8626	1.5500e-003	0.0000	35.9013
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6600e-003	1.3600e-003	0.0133	4.0000e-005	4.3900e-003	3.0000e-005	4.4100e-003	1.1700e-003	3.0000e-005	1.1900e-003	0.0000	3.8966	3.8966	1.0000e-004	0.0000	3.8991
<b>Total</b>	<b>5.6100e-003</b>	<b>0.1287</b>	<b>0.0393</b>	<b>4.1000e-004</b>	<b>0.0128</b>	<b>6.0000e-004</b>	<b>0.0134</b>	<b>3.4900e-003</b>	<b>5.8000e-004</b>	<b>4.0600e-003</b>	<b>0.0000</b>	<b>39.7592</b>	<b>39.7592</b>	<b>1.6500e-003</b>	<b>0.0000</b>	<b>39.8003</b>

**3.5 4. Remove pavement - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0600e-003	0.0000	1.0600e-003	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9000e-003	0.0607	0.0709	1.1000e-004		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	9.9553	9.9553	3.1500e-003	0.0000	10.0340
<b>Total</b>	<b>5.9000e-003</b>	<b>0.0607</b>	<b>0.0709</b>	<b>1.1000e-004</b>	<b>1.0600e-003</b>	<b>2.9900e-003</b>	<b>4.0500e-003</b>	<b>1.1000e-004</b>	<b>2.7500e-003</b>	<b>2.8600e-003</b>	<b>0.0000</b>	<b>9.9553</b>	<b>9.9553</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>10.0340</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.4000e-004	0.0239	4.8900e-003	7.0000e-005	1.5800e-003	1.1000e-004	1.6900e-003	4.4000e-004	1.0000e-004	5.4000e-004	0.0000	6.7242	6.7242	2.9000e-004	0.0000	6.7315
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7400e-003	1.4300e-003	0.0139	5.0000e-005	4.6100e-003	3.0000e-005	4.6400e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	4.0915	4.0915	1.0000e-004	0.0000	4.0940
<b>Total</b>	<b>2.4800e-003</b>	<b>0.0253</b>	<b>0.0188</b>	<b>1.2000e-004</b>	<b>6.1900e-003</b>	<b>1.4000e-004</b>	<b>6.3300e-003</b>	<b>1.6600e-003</b>	<b>1.3000e-004</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>10.8157</b>	<b>10.8157</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>10.8255</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0600e-003	0.0000	1.0600e-003	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9000e-003	0.0607	0.0709	1.1000e-004		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	9.9553	9.9553	3.1500e-003	0.0000	10.0340
<b>Total</b>	<b>5.9000e-003</b>	<b>0.0607</b>	<b>0.0709</b>	<b>1.1000e-004</b>	<b>1.0600e-003</b>	<b>2.9900e-003</b>	<b>4.0500e-003</b>	<b>1.1000e-004</b>	<b>2.7500e-003</b>	<b>2.8600e-003</b>	<b>0.0000</b>	<b>9.9553</b>	<b>9.9553</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>10.0340</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.4000e-004	0.0239	4.8900e-003	7.0000e-005	1.5800e-003	1.1000e-004	1.6900e-003	4.4000e-004	1.0000e-004	5.4000e-004	0.0000	6.7242	6.7242	2.9000e-004	0.0000	6.7315
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7400e-003	1.4300e-003	0.0139	5.0000e-005	4.6100e-003	3.0000e-005	4.6400e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	4.0915	4.0915	1.0000e-004	0.0000	4.0940

Total	2.4800e-003	0.0253	0.0188	1.2000e-004	6.1900e-003	1.4000e-004	6.3300e-003	1.6600e-003	1.3000e-004	1.7900e-003	0.0000	10.8157	10.8157	3.9000e-004	0.0000	10.8255
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### 3.6 5. Shoring 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0404	0.4892	0.3801	7.3000e-004		0.0212	0.0212		0.0195	0.0195	0.0000	65.5383	65.5383	0.0207	0.0000	66.0567
<b>Total</b>	<b>0.0404</b>	<b>0.4892</b>	<b>0.3801</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>0.0212</b>	<b>0.0212</b>	<b>0.0000</b>	<b>0.0195</b>	<b>0.0195</b>	<b>0.0000</b>	<b>65.5383</b>	<b>65.5383</b>	<b>0.0207</b>	<b>0.0000</b>	<b>66.0567</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0158	0.5092	0.1043	1.4800e-003	0.0338	2.2900e-003	0.0360	9.2800e-003	2.1900e-003	0.0115	0.0000	143.4503	143.4503	6.1900e-003	0.0000	143.6051
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7300e-003	3.0600e-003	0.0298	1.0000e-004	9.8700e-003	6.0000e-005	9.9300e-003	2.6200e-003	6.0000e-005	2.6800e-003	0.0000	8.7674	8.7674	2.2000e-004	0.0000	8.7729
<b>Total</b>	<b>0.0195</b>	<b>0.5122</b>	<b>0.1342</b>	<b>1.5800e-003</b>	<b>0.0436</b>	<b>2.3500e-003</b>	<b>0.0460</b>	<b>0.0119</b>	<b>2.2500e-003</b>	<b>0.0142</b>	<b>0.0000</b>	<b>152.2177</b>	<b>152.2177</b>	<b>6.4100e-003</b>	<b>0.0000</b>	<b>152.3779</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0404	0.4892	0.3801	7.3000e-004		0.0212	0.0212		0.0195	0.0195	0.0000	65.5382	65.5382	0.0207	0.0000	66.0566
<b>Total</b>	<b>0.0404</b>	<b>0.4892</b>	<b>0.3801</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>0.0212</b>	<b>0.0212</b>	<b>0.0000</b>	<b>0.0195</b>	<b>0.0195</b>	<b>0.0000</b>	<b>65.5382</b>	<b>65.5382</b>	<b>0.0207</b>	<b>0.0000</b>	<b>66.0566</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0158	0.5092	0.1043	1.4800e-003	0.0338	2.2900e-003	0.0360	9.2800e-003	2.1900e-003	0.0115	0.0000	143.4503	143.4503	6.1900e-003	0.0000	143.6051
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7300e-003	3.0600e-003	0.0298	1.0000e-004	9.8700e-003	6.0000e-005	9.9300e-003	2.6200e-003	6.0000e-005	2.6800e-003	0.0000	8.7674	8.7674	2.2000e-004	0.0000	8.7729
<b>Total</b>	<b>0.0195</b>	<b>0.5122</b>	<b>0.1342</b>	<b>1.5800e-003</b>	<b>0.0436</b>	<b>2.3500e-003</b>	<b>0.0460</b>	<b>0.0119</b>	<b>2.2500e-003</b>	<b>0.0142</b>	<b>0.0000</b>	<b>152.2177</b>	<b>152.2177</b>	<b>6.4100e-003</b>	<b>0.0000</b>	<b>152.3779</b>

**3.7 6. Excavation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.5700e-003	0.0000	5.5700e-003	8.0000e-004	0.0000	8.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0292	0.3305	0.2129	7.5000e-004		0.0115	0.0115		0.0106	0.0106	0.0000	67.5504	67.5504	0.0214	0.0000	68.0847
<b>Total</b>	<b>0.0292</b>	<b>0.3305</b>	<b>0.2129</b>	<b>7.5000e-004</b>	<b>5.5700e-003</b>	<b>0.0115</b>	<b>0.0170</b>	<b>8.0000e-004</b>	<b>0.0106</b>	<b>0.0114</b>	<b>0.0000</b>	<b>67.5504</b>	<b>67.5504</b>	<b>0.0214</b>	<b>0.0000</b>	<b>68.0847</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0556	1.7910	0.3670	5.2100e-003	0.1187	8.0400e-003	0.1268	0.0326	7.6900e-003	0.0403	0.0000	504.5865	504.5865	0.0218	0.0000	505.1309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4700e-003	4.4800e-003	0.0438	1.4000e-004	0.0145	9.0000e-005	0.0146	3.8500e-003	9.0000e-005	3.9300e-003	0.0000	12.8588	12.8588	3.2000e-004	0.0000	12.8669
<b>Total</b>	<b>0.0610</b>	<b>1.7954</b>	<b>0.4107</b>	<b>5.3500e-003</b>	<b>0.1332</b>	<b>8.1300e-003</b>	<b>0.1413</b>	<b>0.0365</b>	<b>7.7800e-003</b>	<b>0.0443</b>	<b>0.0000</b>	<b>517.4453</b>	<b>517.4453</b>	<b>0.0221</b>	<b>0.0000</b>	<b>517.9978</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.5700e-003	0.0000	5.5700e-003	8.0000e-004	0.0000	8.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0292	0.3305	0.2129	7.5000e-004		0.0115	0.0115		0.0106	0.0106	0.0000	67.5503	67.5503	0.0214	0.0000	68.0846
<b>Total</b>	<b>0.0292</b>	<b>0.3305</b>	<b>0.2129</b>	<b>7.5000e-004</b>	<b>5.5700e-003</b>	<b>0.0115</b>	<b>0.0170</b>	<b>8.0000e-004</b>	<b>0.0106</b>	<b>0.0114</b>	<b>0.0000</b>	<b>67.5503</b>	<b>67.5503</b>	<b>0.0214</b>	<b>0.0000</b>	<b>68.0846</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0556	1.7910	0.3670	5.2100e-003	0.1187	8.0400e-003	0.1268	0.0326	7.6900e-003	0.0403	0.0000	504.5865	504.5865	0.0218	0.0000	505.1309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4700e-003	4.4800e-003	0.0438	1.4000e-004	0.0145	9.0000e-005	0.0146	3.8500e-003	9.0000e-005	3.9300e-003	0.0000	12.8588	12.8588	3.2000e-004	0.0000	12.8669
<b>Total</b>	<b>0.0610</b>	<b>1.7954</b>	<b>0.4107</b>	<b>5.3500e-003</b>	<b>0.1332</b>	<b>8.1300e-003</b>	<b>0.1413</b>	<b>0.0365</b>	<b>7.7800e-003</b>	<b>0.0443</b>	<b>0.0000</b>	<b>517.4453</b>	<b>517.4453</b>	<b>0.0221</b>	<b>0.0000</b>	<b>517.9978</b>

### 3.8 7. Pier 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5400e-003	0.0929	0.0642	1.1000e-004		3.7400e-003	3.7400e-003		3.4400e-003	3.4400e-003	0.0000	9.4715	9.4715	3.0000e-003	0.0000	9.5464
<b>Total</b>	<b>7.5400e-003</b>	<b>0.0929</b>	<b>0.0642</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.7400e-003</b>	<b>3.7400e-003</b>	<b>0.0000</b>	<b>3.4400e-003</b>	<b>3.4400e-003</b>	<b>0.0000</b>	<b>9.4715</b>	<b>9.4715</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>9.5464</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.8700e-003	0.3182	0.0652	9.3000e-004	0.0211	1.4300e-003	0.0225	5.8000e-003	1.3700e-003	7.1700e-003	0.0000	89.6564	89.6564	3.8700e-003	0.0000	89.7532
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3900e-003	4.4200e-003	0.0431	1.4000e-004	0.0143	9.0000e-005	0.0144	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	12.6640	12.6640	3.2000e-004	0.0000	12.6719
<b>Total</b>	<b>0.0153</b>	<b>0.3226</b>	<b>0.1083</b>	<b>1.0700e-003</b>	<b>0.0354</b>	<b>1.5200e-003</b>	<b>0.0369</b>	<b>9.5900e-003</b>	<b>1.4500e-003</b>	<b>0.0110</b>	<b>0.0000</b>	<b>102.3205</b>	<b>102.3205</b>	<b>4.1900e-003</b>	<b>0.0000</b>	<b>102.4251</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5400e-003	0.0929	0.0642	1.1000e-004		3.7400e-003	3.7400e-003		3.4400e-003	3.4400e-003	0.0000	9.4715	9.4715	3.0000e-003	0.0000	9.5464
<b>Total</b>	<b>7.5400e-003</b>	<b>0.0929</b>	<b>0.0642</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.7400e-003</b>	<b>3.7400e-003</b>	<b>0.0000</b>	<b>3.4400e-003</b>	<b>3.4400e-003</b>	<b>0.0000</b>	<b>9.4715</b>	<b>9.4715</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>9.5464</b>



**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.8700e-003	0.3182	0.0652	9.3000e-004	0.0211	1.4300e-003	0.0225	5.8000e-003	1.3700e-003	7.1700e-003	0.0000	89.6564	89.6564	3.8700e-003	0.0000	89.7532
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3900e-003	4.4200e-003	0.0431	1.4000e-004	0.0143	9.0000e-005	0.0144	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	12.6640	12.6640	3.2000e-004	0.0000	12.6719
<b>Total</b>	<b>0.0153</b>	<b>0.3226</b>	<b>0.1083</b>	<b>1.0700e-003</b>	<b>0.0354</b>	<b>1.5200e-003</b>	<b>0.0369</b>	<b>9.5900e-003</b>	<b>1.4500e-003</b>	<b>0.0110</b>	<b>0.0000</b>	<b>102.3205</b>	<b>102.3205</b>	<b>4.1900e-003</b>	<b>0.0000</b>	<b>102.4251</b>

**3.9.8. Diversion sewer 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					
Fugitive Dust					2.4000e-004	0.0000	2.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0649	0.6304	0.5603	1.3400e-003		0.0298	0.0298		0.0286	0.0286	0.0000	118.5835	118.5835	0.0281	0.0000	119.2854
<b>Total</b>	<b>0.0649</b>	<b>0.6304</b>	<b>0.5603</b>	<b>1.3400e-003</b>	<b>2.4000e-004</b>	<b>0.0298</b>	<b>0.0300</b>	<b>4.0000e-005</b>	<b>0.0286</b>	<b>0.0286</b>	<b>0.0000</b>	<b>118.5835</b>	<b>118.5835</b>	<b>0.0281</b>	<b>0.0000</b>	<b>119.2854</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.3000e-003	0.2996	0.0614	8.7000e-004	0.0371	1.3500e-003	0.0385	9.6900e-003	1.2900e-003	0.0110	0.0000	84.4205	84.4205	3.6400e-003	0.0000	84.5116
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0109	8.9700e-003	0.0875	2.8000e-004	0.0290	1.8000e-004	0.0291	7.7000e-003	1.7000e-004	7.8700e-003	0.0000	25.7177	25.7177	6.4000e-004	0.0000	25.7337



Off-Road	0.0691	0.6553	0.6457	1.5500e-003		0.0303	0.0303		0.0291	0.0291	0.0000	135.3356	135.3356	0.0322	0.0000	136.1411
<b>Total</b>	<b>0.0691</b>	<b>0.6553</b>	<b>0.6457</b>	<b>1.5500e-003</b>	<b>2.4000e-004</b>	<b>0.0303</b>	<b>0.0306</b>	<b>4.0000e-005</b>	<b>0.0291</b>	<b>0.0291</b>	<b>0.0000</b>	<b>135.3356</b>	<b>135.3356</b>	<b>0.0322</b>	<b>0.0000</b>	<b>136.1411</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.9000e-003	0.3215	0.0689	1.0000e-003	0.0379	1.2400e-003	0.0392	9.9800e-003	1.1900e-003	0.0112	0.0000	96.6838	96.6838	4.1600e-003	0.0000	96.7877
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0116	9.1900e-003	0.0912	3.2000e-004	0.0336	2.1000e-004	0.0338	8.9200e-003	1.9000e-004	9.1200e-003	0.0000	28.8693	28.8693	6.5000e-004	0.0000	28.8856
<b>Total</b>	<b>0.0215</b>	<b>0.3307</b>	<b>0.1601</b>	<b>1.3200e-003</b>	<b>0.0715</b>	<b>1.4500e-003</b>	<b>0.0729</b>	<b>0.0189</b>	<b>1.3800e-003</b>	<b>0.0203</b>	<b>0.0000</b>	<b>125.5531</b>	<b>125.5531</b>	<b>4.8100e-003</b>	<b>0.0000</b>	<b>125.6733</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4000e-004	0.0000	2.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0691	0.6553	0.6457	1.5500e-003		0.0303	0.0303		0.0291	0.0291	0.0000	135.3354	135.3354	0.0322	0.0000	136.1409
<b>Total</b>	<b>0.0691</b>	<b>0.6553</b>	<b>0.6457</b>	<b>1.5500e-003</b>	<b>2.4000e-004</b>	<b>0.0303</b>	<b>0.0306</b>	<b>4.0000e-005</b>	<b>0.0291</b>	<b>0.0291</b>	<b>0.0000</b>	<b>135.3354</b>	<b>135.3354</b>	<b>0.0322</b>	<b>0.0000</b>	<b>136.1409</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.9000e-003	0.3215	0.0689	1.0000e-003	0.0379	1.2400e-003	0.0392	9.9800e-003	1.1900e-003	0.0112	0.0000	96.6838	96.6838	4.1600e-003	0.0000	96.7877
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0116	9.1900e-003	0.0912	3.2000e-004	0.0336	2.1000e-004	0.0338	8.9200e-003	1.9000e-004	9.1200e-003	0.0000	28.8693	28.8693	6.5000e-004	0.0000	28.8856
<b>Total</b>	<b>0.0215</b>	<b>0.3307</b>	<b>0.1601</b>	<b>1.3200e-003</b>	<b>0.0715</b>	<b>1.4500e-003</b>	<b>0.0729</b>	<b>0.0189</b>	<b>1.3800e-003</b>	<b>0.0203</b>	<b>0.0000</b>	<b>125.5531</b>	<b>125.5531</b>	<b>4.8100e-003</b>	<b>0.0000</b>	<b>125.6733</b>

**3.10 10. Concrete walls - 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	0.0194	0.1792	0.1586	2.7000e-004		9.7800e-003	9.7800e-003		9.5800e-003	9.5800e-003	0.0000	23.6257	23.6257	3.1400e-003	0.0000	23.7043
<b>Total</b>	<b>0.0194</b>	<b>0.1792</b>	<b>0.1586</b>	<b>2.7000e-004</b>		<b>9.7800e-003</b>	<b>9.7800e-003</b>		<b>9.5800e-003</b>	<b>9.5800e-003</b>	<b>0.0000</b>	<b>23.6257</b>	<b>23.6257</b>	<b>3.1400e-003</b>	<b>0.0000</b>	<b>23.7043</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0213	0.6856	0.1405	1.9900e-003	0.0795	3.0800e-003	0.0826	0.0209	2.9500e-003	0.0238	0.0000	193.1648	193.1648	8.3400e-003	0.0000	193.3732
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5700e-003	2.9200e-003	0.0285	9.0000e-005	9.4300e-003	6.0000e-005	9.4900e-003	2.5100e-003	6.0000e-005	2.5600e-003	0.0000	8.3777	8.3777	2.1000e-004	0.0000	8.3830
<b>Total</b>	<b>0.0248</b>	<b>0.6885</b>	<b>0.1690</b>	<b>2.0800e-003</b>	<b>0.0889</b>	<b>3.1400e-003</b>	<b>0.0921</b>	<b>0.0234</b>	<b>3.0100e-003</b>	<b>0.0264</b>	<b>0.0000</b>	<b>201.5425</b>	<b>201.5425</b>	<b>8.5500e-003</b>	<b>0.0000</b>	<b>201.7562</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0194	0.1792	0.1586	2.7000e-004		9.7800e-003	9.7800e-003		9.5800e-003	9.5800e-003	0.0000	23.6257	23.6257	3.1400e-003	0.0000	23.7043
<b>Total</b>	<b>0.0194</b>	<b>0.1792</b>	<b>0.1586</b>	<b>2.7000e-004</b>		<b>9.7800e-003</b>	<b>9.7800e-003</b>		<b>9.5800e-003</b>	<b>9.5800e-003</b>	<b>0.0000</b>	<b>23.6257</b>	<b>23.6257</b>	<b>3.1400e-003</b>	<b>0.0000</b>	<b>23.7043</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0213	0.6856	0.1405	1.9900e-003	0.0795	3.0800e-003	0.0826	0.0209	2.9500e-003	0.0238	0.0000	193.1648	193.1648	8.3400e-003	0.0000	193.3732
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5700e-003	2.9200e-003	0.0285	9.0000e-005	9.4300e-003	6.0000e-005	9.4900e-003	2.5100e-003	6.0000e-005	2.5600e-003	0.0000	8.3777	8.3777	2.1000e-004	0.0000	8.3830
<b>Total</b>	<b>0.0248</b>	<b>0.6885</b>	<b>0.1690</b>	<b>2.0800e-003</b>	<b>0.0889</b>	<b>3.1400e-003</b>	<b>0.0921</b>	<b>0.0234</b>	<b>3.0100e-003</b>	<b>0.0264</b>	<b>0.0000</b>	<b>201.5425</b>	<b>201.5425</b>	<b>8.5500e-003</b>	<b>0.0000</b>	<b>201.7562</b>

**3.10 10. Concrete walls - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0176	0.1636	0.1536	2.7000e-004		8.5800e-003	8.5800e-003		8.4000e-003	8.4000e-003	0.0000	23.4885	23.4885	3.0200e-003	0.0000	23.5640
<b>Total</b>	<b>0.0176</b>	<b>0.1636</b>	<b>0.1536</b>	<b>2.7000e-004</b>		<b>8.5800e-003</b>	<b>8.5800e-003</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>	<b>0.0000</b>	<b>23.4885</b>	<b>23.4885</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>23.5640</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0196	0.6347	0.1361	1.9700e-003	0.0795	2.4500e-003	0.0820	0.0209	2.3400e-003	0.0232	0.0000	190.8605	190.8605	8.2100e-003	0.0000	191.0658
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2700e-003	2.5800e-003	0.0256	9.0000e-005	9.4300e-003	6.0000e-005	9.4900e-003	2.5100e-003	5.0000e-005	2.5000e-003	0.0000	8.1136	8.1136	1.8000e-004	0.0000	8.1182
<b>Total</b>	<b>0.0228</b>	<b>0.6373</b>	<b>0.1617</b>	<b>2.0600e-003</b>	<b>0.0889</b>	<b>2.5100e-003</b>	<b>0.0914</b>	<b>0.0234</b>	<b>2.3900e-003</b>	<b>0.0258</b>	<b>0.0000</b>	<b>198.9741</b>	<b>198.9741</b>	<b>8.3900e-003</b>	<b>0.0000</b>	<b>199.1839</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0176	0.1636	0.1536	2.7000e-004		8.5800e-003	8.5800e-003		8.4000e-003	8.4000e-003	0.0000	23.4884	23.4884	3.0200e-003	0.0000	23.5639
<b>Total</b>	<b>0.0176</b>	<b>0.1636</b>	<b>0.1536</b>	<b>2.7000e-004</b>		<b>8.5800e-003</b>	<b>8.5800e-003</b>		<b>8.4000e-003</b>	<b>8.4000e-003</b>	<b>0.0000</b>	<b>23.4884</b>	<b>23.4884</b>	<b>3.0200e-003</b>	<b>0.0000</b>	<b>23.5639</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0196	0.6347	0.1361	1.9700e-003	0.0795	2.4500e-003	0.0820	0.0209	2.3400e-003	0.0232	0.0000	190.8605	190.8605	8.2100e-003	0.0000	191.0658
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2700e-003	2.5800e-003	0.0256	9.0000e-005	9.4300e-003	6.0000e-005	9.4900e-003	2.5100e-003	5.0000e-005	2.5600e-003	0.0000	8.1136	8.1136	1.8000e-004	0.0000	8.1182
<b>Total</b>	<b>0.0228</b>	<b>0.6373</b>	<b>0.1617</b>	<b>2.0600e-003</b>	<b>0.0889</b>	<b>2.5100e-003</b>	<b>0.0914</b>	<b>0.0234</b>	<b>2.3900e-003</b>	<b>0.0258</b>	<b>0.0000</b>	<b>198.9741</b>	<b>198.9741</b>	<b>8.3900e-003</b>	<b>0.0000</b>	<b>199.1839</b>

**3.11 11. Concrete roof - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0172	0.1598	0.1500	2.7000e-004		8.3800e-003	8.3800e-003		8.2000e-003	8.2000e-003	0.0000	22.9422	22.9422	2.9500e-003	0.0000	23.0160
<b>Total</b>	<b>0.0172</b>	<b>0.1598</b>	<b>0.1500</b>	<b>2.7000e-004</b>		<b>8.3800e-003</b>	<b>8.3800e-003</b>		<b>8.2000e-003</b>	<b>8.2000e-003</b>	<b>0.0000</b>	<b>22.9422</b>	<b>22.9422</b>	<b>2.9500e-003</b>	<b>0.0000</b>	<b>23.0160</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0318	1.0325	0.2214	3.2000e-003	0.0739	3.9900e-003	0.0779	0.0203	3.8100e-003	0.0242	0.0000	310.4972	310.4972	0.0134	0.0000	310.8311
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1900e-003	2.5200e-003	0.0250	9.0000e-005	9.2100e-003	6.0000e-005	9.2700e-003	2.4500e-003	5.0000e-005	2.5000e-003	0.0000	7.9249	7.9249	1.8000e-004	0.0000	7.9294
<b>Total</b>	<b>0.0350</b>	<b>1.0350</b>	<b>0.2464</b>	<b>3.2900e-003</b>	<b>0.0832</b>	<b>4.0500e-003</b>	<b>0.0872</b>	<b>0.0228</b>	<b>3.8600e-003</b>	<b>0.0267</b>	<b>0.0000</b>	<b>318.4221</b>	<b>318.4221</b>	<b>0.0135</b>	<b>0.0000</b>	<b>318.7604</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0172	0.1598	0.1500	2.7000e-004		8.3800e-003	8.3800e-003		8.2000e-003	8.2000e-003	0.0000	22.9422	22.9422	2.9500e-003	0.0000	23.0159
<b>Total</b>	<b>0.0172</b>	<b>0.1598</b>	<b>0.1500</b>	<b>2.7000e-004</b>		<b>8.3800e-003</b>	<b>8.3800e-003</b>		<b>8.2000e-003</b>	<b>8.2000e-003</b>	<b>0.0000</b>	<b>22.9422</b>	<b>22.9422</b>	<b>2.9500e-003</b>	<b>0.0000</b>	<b>23.0159</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0318	1.0325	0.2214	3.2000e-003	0.0739	3.9900e-003	0.0779	0.0203	3.8100e-003	0.0242	0.0000	310.4972	310.4972	0.0134	0.0000	310.8311
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1900e-003	2.5200e-003	0.0250	9.0000e-005	9.2100e-003	6.0000e-005	9.2700e-003	2.4500e-003	5.0000e-005	2.5000e-003	0.0000	7.9249	7.9249	1.8000e-004	0.0000	7.9294
<b>Total</b>	<b>0.0350</b>	<b>1.0350</b>	<b>0.2464</b>	<b>3.2900e-003</b>	<b>0.0832</b>	<b>4.0500e-003</b>	<b>0.0872</b>	<b>0.0228</b>	<b>3.8600e-003</b>	<b>0.0267</b>	<b>0.0000</b>	<b>318.4221</b>	<b>318.4221</b>	<b>0.0135</b>	<b>0.0000</b>	<b>318.7604</b>



### 3.12 13. Mechanical work - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0136	0.4419	0.0947	1.3700e-003	0.0317	1.7100e-003	0.0334	8.7000e-003	1.6300e-003	0.0103	0.0000	132.8804	132.8804	5.7200e-003	0.0000	133.0233
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9400e-003	3.9100e-003	0.0387	1.4000e-004	0.0143	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	12.2647	12.2647	2.8000e-004	0.0000	12.2717
<b>Total</b>	<b>0.0186</b>	<b>0.4458</b>	<b>0.1335</b>	<b>1.5100e-003</b>	<b>0.0459</b>	<b>1.8000e-003</b>	<b>0.0477</b>	<b>0.0125</b>	<b>1.7100e-003</b>	<b>0.0142</b>	<b>0.0000</b>	<b>145.1451</b>	<b>145.1451</b>	<b>6.0000e-003</b>	<b>0.0000</b>	<b>145.2949</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0136	0.4419	0.0947	1.3700e-003	0.0317	1.7100e-003	0.0334	8.7000e-003	1.6300e-003	0.0103	0.0000	132.8804	132.8804	5.7200e-003	0.0000	133.0233
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9400e-003	3.9100e-003	0.0387	1.4000e-004	0.0143	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	12.2647	12.2647	2.8000e-004	0.0000	12.2717
<b>Total</b>	<b>0.0186</b>	<b>0.4458</b>	<b>0.1335</b>	<b>1.5100e-003</b>	<b>0.0459</b>	<b>1.8000e-003</b>	<b>0.0477</b>	<b>0.0125</b>	<b>1.7100e-003</b>	<b>0.0142</b>	<b>0.0000</b>	<b>145.1451</b>	<b>145.1451</b>	<b>6.0000e-003</b>	<b>0.0000</b>	<b>145.2949</b>

### 3.13 12. Backfill - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0178	0.1777	0.1924	4.4000e-004		7.6600e-003	7.6600e-003		7.0500e-003	7.0500e-003	0.0000	38.3864	38.3864	0.0124	0.0000	38.6968



Worker	3.2700e-003	2.5800e-003	0.0256	9.0000e-005	9.4300e-003	6.0000e-005	9.4900e-003	2.5100e-003	5.0000e-005	2.5600e-003	0.0000	8.1136	8.1136	1.8000e-004	0.0000	8.1182
<b>Total</b>	<b>0.0251</b>	<b>0.7096</b>	<b>0.1772</b>	<b>2.2800e-003</b>	<b>0.0601</b>	<b>2.7900e-003</b>	<b>0.0629</b>	<b>0.0164</b>	<b>2.6600e-003</b>	<b>0.0191</b>	<b>0.0000</b>	<b>220.7222</b>	<b>220.7222</b>	<b>9.3300e-003</b>	<b>0.0000</b>	<b>220.9554</b>

### 3.14 14. Electrical work - 2020

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0700e-003	0.2946	0.0632	9.1000e-004	0.0211	1.1400e-003	0.0222	5.8000e-003	1.0900e-003	6.8900e-003	0.0000	88.5869	88.5869	3.8100e-003	0.0000	88.6822
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.9700e-003	0.0393	1.4000e-004	0.0145	9.0000e-005	0.0146	3.8500e-003	8.0000e-005	3.9300e-003	0.0000	12.4534	12.4534	2.8000e-004	0.0000	12.4605
<b>Total</b>	<b>0.0141</b>	<b>0.2986</b>	<b>0.1025</b>	<b>1.0500e-003</b>	<b>0.0356</b>	<b>1.2300e-003</b>	<b>0.0368</b>	<b>9.6500e-003</b>	<b>1.1700e-003</b>	<b>0.0108</b>	<b>0.0000</b>	<b>101.0404</b>	<b>101.0404</b>	<b>4.0900e-003</b>	<b>0.0000</b>	<b>101.1426</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0700e-003	0.2946	0.0632	9.1000e-004	0.0211	1.1400e-003	0.0222	5.8000e-003	1.0900e-003	6.8900e-003	0.0000	88.5869	88.5869	3.8100e-003	0.0000	88.6822
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.9700e-003	0.0393	1.4000e-004	0.0145	9.0000e-005	0.0146	3.8500e-003	8.0000e-005	3.9300e-003	0.0000	12.4534	12.4534	2.8000e-004	0.0000	12.4605
<b>Total</b>	<b>0.0141</b>	<b>0.2986</b>	<b>0.1025</b>	<b>1.0500e-003</b>	<b>0.0356</b>	<b>1.2300e-003</b>	<b>0.0368</b>	<b>9.6500e-003</b>	<b>1.1700e-003</b>	<b>0.0108</b>	<b>0.0000</b>	<b>101.0404</b>	<b>101.0404</b>	<b>4.0900e-003</b>	<b>0.0000</b>	<b>101.1426</b>

### 3.15 15. Re paving - 2020

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0255	0.2385	0.2347	3.7000e-004		0.0130	0.0130		0.0121	0.0121	0.0000	30.9967	30.9967	9.0300e-003	0.0000	31.2224
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0255</b>	<b>0.2385</b>	<b>0.2347</b>	<b>3.7000e-004</b>		<b>0.0130</b>	<b>0.0130</b>		<b>0.0121</b>	<b>0.0121</b>	<b>0.0000</b>	<b>30.9967</b>	<b>30.9967</b>	<b>9.0300e-003</b>	<b>0.0000</b>	<b>31.2224</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7200e-003	0.0884	0.0190	2.7000e-004	6.3300e-003	3.4000e-004	6.6700e-003	1.7400e-003	3.3000e-004	2.0700e-003	0.0000	26.5761	26.5761	1.1400e-003	0.0000	26.6047
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.9700e-003	0.0393	1.4000e-004	0.0145	9.0000e-005	0.0146	3.8500e-003	8.0000e-005	3.9300e-003	0.0000	12.4534	12.4534	2.8000e-004	0.0000	12.4605
<b>Total</b>	<b>7.7400e-003</b>	<b>0.0923</b>	<b>0.0583</b>	<b>4.1000e-004</b>	<b>0.0208</b>	<b>4.3000e-004</b>	<b>0.0212</b>	<b>5.5900e-003</b>	<b>4.1000e-004</b>	<b>6.0000e-003</b>	<b>0.0000</b>	<b>39.0295</b>	<b>39.0295</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>39.0651</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0255	0.2385	0.2347	3.7000e-004		0.0130	0.0130		0.0121	0.0121	0.0000	30.9966	30.9966	9.0300e-003	0.0000	31.2223
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0255</b>	<b>0.2385</b>	<b>0.2347</b>	<b>3.7000e-004</b>		<b>0.0130</b>	<b>0.0130</b>		<b>0.0121</b>	<b>0.0121</b>	<b>0.0000</b>	<b>30.9966</b>	<b>30.9966</b>	<b>9.0300e-003</b>	<b>0.0000</b>	<b>31.2223</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7200e-003	0.0884	0.0190	2.7000e-004	6.3300e-003	3.4000e-004	6.6700e-003	1.7400e-003	3.3000e-004	2.0700e-003	0.0000	26.5761	26.5761	1.1400e-003	0.0000	26.6047
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0200e-003	3.9700e-003	0.0393	1.4000e-004	0.0145	9.0000e-005	0.0146	3.8500e-003	8.0000e-005	3.9300e-003	0.0000	12.4534	12.4534	2.8000e-004	0.0000	12.4605
<b>Total</b>	<b>7.7400e-003</b>	<b>0.0923</b>	<b>0.0583</b>	<b>4.1000e-004</b>	<b>0.0208</b>	<b>4.3000e-004</b>	<b>0.0212</b>	<b>5.5900e-003</b>	<b>4.1000e-004</b>	<b>6.0000e-003</b>	<b>0.0000</b>	<b>39.0295</b>	<b>39.0295</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>39.0651</b>

**3.16 9. Concrete bottom Slab - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0266	0.2473	0.2322	4.1000e-004		0.0130	0.0130		0.0127	0.0127	0.0000	35.5058	35.5058	4.5700e-003	0.0000	35.6200
<b>Total</b>	<b>0.0266</b>	<b>0.2473</b>	<b>0.2322</b>	<b>4.1000e-004</b>		<b>0.0130</b>	<b>0.0130</b>		<b>0.0127</b>	<b>0.0127</b>	<b>0.0000</b>	<b>35.5058</b>	<b>35.5058</b>	<b>4.5700e-003</b>	<b>0.0000</b>	<b>35.6200</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0382	1.2402	0.2659	3.8400e-003	0.0888	4.7900e-003	0.0936	0.0244	4.5800e-003	0.0290	0.0000	372.9509	372.9509	0.0160	0.0000	373.3520
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9400e-003	3.9100e-003	0.0387	1.4000e-004	0.0143	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	12.2647	12.2647	2.8000e-004	0.0000	12.2717
<b>Total</b>	<b>0.0431</b>	<b>1.2441</b>	<b>0.3046</b>	<b>3.9800e-003</b>	<b>0.1031</b>	<b>4.8800e-003</b>	<b>0.1080</b>	<b>0.0282</b>	<b>4.6600e-003</b>	<b>0.0329</b>	<b>0.0000</b>	<b>385.2157</b>	<b>385.2157</b>	<b>0.0163</b>	<b>0.0000</b>	<b>385.6237</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0266	0.2473	0.2322	4.1000e-004		0.0130	0.0130		0.0127	0.0127	0.0000	35.5058	35.5058	4.5700e-003	0.0000	35.6199
<b>Total</b>	<b>0.0266</b>	<b>0.2473</b>	<b>0.2322</b>	<b>4.1000e-004</b>		<b>0.0130</b>	<b>0.0130</b>		<b>0.0127</b>	<b>0.0127</b>	<b>0.0000</b>	<b>35.5058</b>	<b>35.5058</b>	<b>4.5700e-003</b>	<b>0.0000</b>	<b>35.6199</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0382	1.2402	0.2659	3.8400e-003	0.0888	4.7900e-003	0.0936	0.0244	4.5800e-003	0.0290	0.0000	372.9509	372.9509	0.0160	0.0000	373.3520
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9400e-003	3.9100e-003	0.0387	1.4000e-004	0.0143	9.0000e-005	0.0143	3.7900e-003	8.0000e-005	3.8700e-003	0.0000	12.2647	12.2647	2.8000e-004	0.0000	12.2717
<b>Total</b>	<b>0.0431</b>	<b>1.2441</b>	<b>0.3046</b>	<b>3.9800e-003</b>	<b>0.1031</b>	<b>4.8800e-003</b>	<b>0.1080</b>	<b>0.0282</b>	<b>4.6600e-003</b>	<b>0.0329</b>	<b>0.0000</b>	<b>385.2157</b>	<b>385.2157</b>	<b>0.0163</b>	<b>0.0000</b>	<b>385.6237</b>

3.17 16. Demobilization - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4600e-003	0.1397	0.0323	4.7000e-004	0.0110	5.2000e-004	0.0115	3.0200e-003	5.0000e-004	3.5200e-003	0.0000	45.4647	45.4647	1.9600e-003	0.0000	45.5136
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1300e-003	0.0115	4.0000e-005	4.6100e-003	3.0000e-005	4.6300e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.8231	3.8231	8.0000e-005	0.0000	3.8251
<b>Total</b>	<b>5.9400e-003</b>	<b>0.1409</b>	<b>0.0438</b>	<b>5.1000e-004</b>	<b>0.0156</b>	<b>5.5000e-004</b>	<b>0.0161</b>	<b>4.2400e-003</b>	<b>5.3000e-004</b>	<b>4.7700e-003</b>	<b>0.0000</b>	<b>49.2878</b>	<b>49.2878</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>49.3388</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4600e-003	0.1397	0.0323	4.7000e-004	0.0110	5.2000e-004	0.0115	3.0200e-003	5.0000e-004	3.5200e-003	0.0000	45.4647	45.4647	1.9600e-003	0.0000	45.5136
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	1.1300e-003	0.0115	4.0000e-005	4.6100e-003	3.0000e-005	4.6300e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.8231	3.8231	8.0000e-005	0.0000	3.8251
<b>Total</b>	<b>5.9400e-003</b>	<b>0.1409</b>	<b>0.0438</b>	<b>5.1000e-004</b>	<b>0.0156</b>	<b>5.5000e-004</b>	<b>0.0161</b>	<b>4.2400e-003</b>	<b>5.3000e-004</b>	<b>4.7700e-003</b>	<b>0.0000</b>	<b>49.2878</b>	<b>49.2878</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>49.3388</b>