

# **CalEEMod Output Tables**

for the

Coachella Water Authority Chromium-6 Water Treatment  
Facilities Project

Initial Study/Mitigated Negative Declaration

**Prepared for:**

Coachella Water Authority  
1515 Sixth Street  
Coachella, CA 92236

**Prepared by:**



**TERRA NOVA®**

PLANNING & RESEARCH, INC.  
42635 MELANIE PLACE, SUITE 101  
PALM DESERT, CA 92211

December 2016

**Hazen - Coachella Typical Well Site**  
**Salton Sea Air Basin, Annual**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	6.00	1000sqft	1.10	6,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	20
<b>Climate Zone</b>	15			<b>Operational Year</b>	2020
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MWhr)</b>	1270.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - A typical well site is used for AQ modeling purposes. The typical well is 1.1 acres with 6,000 sqft of paving.

Construction Phase - Construction phases adjusted for a typical well sites.

Trips and VMT - Per Hazen comments

Demolition - 2 tons used for typical SBA well site modeling.

Grading - Per Hazen comments. 111 CY are utilized for typical SBA well site modeling.

Architectural Coating - Rule 1113

Vehicle Trips - Per Hazen comments

Road Dust - Urban setting

Area Coating - Low VOC.

Energy Use - Per Hazen comments. 7.2 would be typical for a single well site.

Construction Off-road Equipment Mitigation - Adher to BMP measures and standard dust control plan.

Area Mitigation - Low VOC.

Off-road Equipment - Per Hazen comments.

Off-road Equipment - Per Hazen comments and to model for a typical well site.

Off-road Equipment - Per Hazen comments and to model a typical well site.

Off-road Equipment - Per Hazen comments and to model a typical well site.

Off-road Equipment - Per Hazen comments.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	150
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	4.00	50.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	2.00	35.00
tblEnergyUse	T24E	0.00	7.20
tblGrading	AcresOfGrading	17.50	1.10
tblGrading	AcresOfGrading	18.75	1.10
tblGrading	MaterialImported	0.00	111.00
tblLandUse	LotAcreage	0.14	1.10
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00

tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblRoadDust	RoadPercentPave	50	100

## 2.0 Emissions Summary

---



**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0297	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	24.9035	24.9035	5.7000e-004	1.2000e-004	24.9519
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0297</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>24.9036</b>	<b>24.9036</b>	<b>5.7000e-004</b>	<b>1.2000e-004</b>	<b>24.9520</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0259	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	24.9035	24.9035	5.7000e-004	1.2000e-004	24.9519
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0259</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>24.9036</b>	<b>24.9036</b>	<b>5.7000e-004</b>	<b>1.2000e-004</b>	<b>24.9520</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>12.93</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

## 3.0 Construction Detail

### Construction Phase



Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2018	3/12/2018	5	50	
2	Site Preparation	Site Preparation	3/13/2018	4/30/2018	5	35	
3	Grading	Grading	5/1/2018	7/9/2018	5	50	
4	Paving	Paving	7/10/2018	8/6/2018	5	20	

**Acres of Grading (Site Preparation Phase): 1.1**

**Acres of Grading (Grading Phase): 1.1**

**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
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Graders	1	6.00	174	0.41
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	14.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Oxidation Catalyst for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

**3.2 Demolition - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0598	0.5875	0.4924	6.1000e-004		0.0342	0.0342		0.0320	0.0320	0.0000	55.0483	55.0483	0.0140	0.0000	55.3422
<b>Total</b>	<b>0.0598</b>	<b>0.5875</b>	<b>0.4924</b>	<b>6.1000e-004</b>	<b>2.0000e-005</b>	<b>0.0342</b>	<b>0.0342</b>	<b>0.0000</b>	<b>0.0320</b>	<b>0.0320</b>	<b>0.0000</b>	<b>55.0483</b>	<b>55.0483</b>	<b>0.0140</b>	<b>0.0000</b>	<b>55.3422</b>

### 3.2 Demolition - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1200e-003	1.6200e-003	0.0153	3.0000e-005	2.6900e-003	2.0000e-005	2.7000e-003	7.1000e-004	2.0000e-005	7.3000e-004	0.0000	2.1152	2.1152	1.2000e-004	0.0000	2.1178
<b>Total</b>	<b>1.1200e-003</b>	<b>1.6200e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>	<b>2.6900e-003</b>	<b>2.0000e-005</b>	<b>2.7000e-003</b>	<b>7.1000e-004</b>	<b>2.0000e-005</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>2.1152</b>	<b>2.1152</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1178</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					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0598	0.4994	0.4924	6.1000e-004		0.0342	0.0342		0.0320	0.0320	0.0000	55.0483	55.0483	0.0140	0.0000	55.3421
<b>Total</b>	<b>0.0598</b>	<b>0.4994</b>	<b>0.4924</b>	<b>6.1000e-004</b>	<b>1.0000e-005</b>	<b>0.0342</b>	<b>0.0342</b>	<b>0.0000</b>	<b>0.0320</b>	<b>0.0320</b>	<b>0.0000</b>	<b>55.0483</b>	<b>55.0483</b>	<b>0.0140</b>	<b>0.0000</b>	<b>55.3421</b>

### 3.2 Demolition - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1200e-003	1.6200e-003	0.0153	3.0000e-005	2.6900e-003	2.0000e-005	2.7000e-003	7.1000e-004	2.0000e-005	7.3000e-004	0.0000	2.1152	2.1152	1.2000e-004	0.0000	2.1178
<b>Total</b>	<b>1.1200e-003</b>	<b>1.6200e-003</b>	<b>0.0153</b>	<b>3.0000e-005</b>	<b>2.6900e-003</b>	<b>2.0000e-005</b>	<b>2.7000e-003</b>	<b>7.1000e-004</b>	<b>2.0000e-005</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>2.1152</b>	<b>2.1152</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.1178</b>

### 3.3 Site Preparation - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0928	0.0000	0.0928	0.0508	0.0000	0.0508	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0357	0.3706	0.2598	3.0000e-004		0.0197	0.0197		0.0181	0.0181	0.0000	27.3504	27.3504	8.5100e-003	0.0000	27.5292
<b>Total</b>	<b>0.0357</b>	<b>0.3706</b>	<b>0.2598</b>	<b>3.0000e-004</b>	<b>0.0928</b>	<b>0.0197</b>	<b>0.1125</b>	<b>0.0508</b>	<b>0.0181</b>	<b>0.0689</b>	<b>0.0000</b>	<b>27.3504</b>	<b>27.3504</b>	<b>8.5100e-003</b>	<b>0.0000</b>	<b>27.5292</b>

### 3.3 Site Preparation - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	7.0000e-004	6.5900e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9112	0.9112	5.0000e-005	0.0000	0.9123
<b>Total</b>	<b>4.8000e-004</b>	<b>7.0000e-004</b>	<b>6.5900e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>0.9112</b>	<b>0.9112</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9123</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					0.0362	0.0000	0.0362	0.0198	0.0000	0.0198	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0357	0.3150	0.2598	3.0000e-004		0.0197	0.0197		0.0181	0.0181	0.0000	27.3504	27.3504	8.5100e-003	0.0000	27.5292
<b>Total</b>	<b>0.0357</b>	<b>0.3150</b>	<b>0.2598</b>	<b>3.0000e-004</b>	<b>0.0362</b>	<b>0.0197</b>	<b>0.0559</b>	<b>0.0198</b>	<b>0.0181</b>	<b>0.0379</b>	<b>0.0000</b>	<b>27.3504</b>	<b>27.3504</b>	<b>8.5100e-003</b>	<b>0.0000</b>	<b>27.5292</b>

### 3.3 Site Preparation - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	7.0000e-004	6.5900e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9112	0.9112	5.0000e-005	0.0000	0.9123
<b>Total</b>	<b>4.8000e-004</b>	<b>7.0000e-004</b>	<b>6.5900e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>0.9112</b>	<b>0.9112</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9123</b>

### 3.4 Grading - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1135	0.0000	0.1135	0.0621	0.0000	0.0621	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0416	0.4327	0.3067	3.5000e-004		0.0230	0.0230		0.0211	0.0211	0.0000	32.0963	32.0963	9.9900e-003	0.0000	32.3061
<b>Total</b>	<b>0.0416</b>	<b>0.4327</b>	<b>0.3067</b>	<b>3.5000e-004</b>	<b>0.1135</b>	<b>0.0230</b>	<b>0.1365</b>	<b>0.0621</b>	<b>0.0211</b>	<b>0.0833</b>	<b>0.0000</b>	<b>32.0963</b>	<b>32.0963</b>	<b>9.9900e-003</b>	<b>0.0000</b>	<b>32.3061</b>

### 3.4 Grading - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	1.3500e-003	1.5500e-003	0.0000	1.2000e-004	3.0000e-005	1.5000e-004	3.0000e-005	3.0000e-005	6.0000e-005	0.0000	0.4327	0.4327	0.0000	0.0000	0.4327
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	1.0000e-003	9.4100e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3017	1.3017	8.0000e-005	0.0000	1.3033
<b>Total</b>	<b>8.0000e-004</b>	<b>2.3500e-003</b>	<b>0.0110</b>	<b>2.0000e-005</b>	<b>1.7700e-003</b>	<b>4.0000e-005</b>	<b>1.8100e-003</b>	<b>4.7000e-004</b>	<b>4.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.7343</b>	<b>1.7343</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.7360</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					0.0443	0.0000	0.0443	0.0242	0.0000	0.0242	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0416	0.3678	0.3067	3.5000e-004		0.0230	0.0230		0.0211	0.0211	0.0000	32.0963	32.0963	9.9900e-003	0.0000	32.3061
<b>Total</b>	<b>0.0416</b>	<b>0.3678</b>	<b>0.3067</b>	<b>3.5000e-004</b>	<b>0.0443</b>	<b>0.0230</b>	<b>0.0672</b>	<b>0.0242</b>	<b>0.0211</b>	<b>0.0454</b>	<b>0.0000</b>	<b>32.0963</b>	<b>32.0963</b>	<b>9.9900e-003</b>	<b>0.0000</b>	<b>32.3061</b>

### 3.4 Grading - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.1000e-004	1.3500e-003	1.5500e-003	0.0000	1.2000e-004	3.0000e-005	1.5000e-004	3.0000e-005	3.0000e-005	6.0000e-005	0.0000	0.4327	0.4327	0.0000	0.0000	0.4327
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	1.0000e-003	9.4100e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3017	1.3017	8.0000e-005	0.0000	1.3033
<b>Total</b>	<b>8.0000e-004</b>	<b>2.3500e-003</b>	<b>0.0110</b>	<b>2.0000e-005</b>	<b>1.7700e-003</b>	<b>4.0000e-005</b>	<b>1.8100e-003</b>	<b>4.7000e-004</b>	<b>4.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.7343</b>	<b>1.7343</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.7360</b>

### 3.5 Paving - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0101	0.1031	0.0887	1.3000e-004		6.0300e-003	6.0300e-003		5.5500e-003	5.5500e-003	0.0000	12.0345	12.0345	3.6800e-003	0.0000	12.1117
Paving	1.4400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0115</b>	<b>0.1031</b>	<b>0.0887</b>	<b>1.3000e-004</b>		<b>6.0300e-003</b>	<b>6.0300e-003</b>		<b>5.5500e-003</b>	<b>5.5500e-003</b>	<b>0.0000</b>	<b>12.0345</b>	<b>12.0345</b>	<b>3.6800e-003</b>	<b>0.0000</b>	<b>12.1117</b>



### 3.5 Paving - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	6.5000e-004	6.1200e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.8461	0.8461	5.0000e-005	0.0000	0.8471
<b>Total</b>	<b>4.5000e-004</b>	<b>6.5000e-004</b>	<b>6.1200e-003</b>	<b>1.0000e-005</b>	<b>1.0700e-003</b>	<b>1.0000e-005</b>	<b>1.0800e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.8461</b>	<b>0.8461</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.8471</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	0.0101	0.0876	0.0887	1.3000e-004		6.0300e-003	6.0300e-003		5.5500e-003	5.5500e-003	0.0000	12.0345	12.0345	3.6800e-003	0.0000	12.1117
Paving	1.4400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0115</b>	<b>0.0876</b>	<b>0.0887</b>	<b>1.3000e-004</b>		<b>6.0300e-003</b>	<b>6.0300e-003</b>		<b>5.5500e-003</b>	<b>5.5500e-003</b>	<b>0.0000</b>	<b>12.0345</b>	<b>12.0345</b>	<b>3.6800e-003</b>	<b>0.0000</b>	<b>12.1117</b>



**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.471073	0.065210	0.167869	0.157103	0.039378	0.006346	0.011728	0.072116	0.001386	0.001196	0.003702	0.000530	0.002362

**5.0 Energy Detail**

**4.4 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**



### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

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

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	43200	24.9035	5.7000e-004	1.2000e-004	24.9519
<b>Total</b>		<b>24.9035</b>	<b>5.7000e-004</b>	<b>1.2000e-004</b>	<b>24.9519</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	43200	24.9035	5.7000e-004	1.2000e-004	24.9519
<b>Total</b>		<b>24.9035</b>	<b>5.7000e-004</b>	<b>1.2000e-004</b>	<b>24.9519</b>

### 6.0 Area Detail

---

#### 6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0259	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Unmitigated	0.0297	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.2600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
<b>Total</b>	<b>0.0297</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.1000e-004</b>

## 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	4.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0217					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
<b>Total</b>	<b>0.0259</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.1000e-004</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

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



## 7.2 Water by Land Use

### Unmitigated

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

### Mitigated

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

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

**Category/Year**

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

**8.2 Waste by Land Use**

**Unmitigated**

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

## 8.2 Waste by Land Use

### Mitigated

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

## 9.0 Operational Offroad

---

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

## 10.0 Vegetation

---

**Hazen - Coachella Typical Well Site**  
**Salton Sea Air Basin, Winter**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	6.00	1000sqft	1.10	6,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	20
<b>Climate Zone</b>	15			<b>Operational Year</b>	2020
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MWhr)</b>	1270.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - A typical well site is used for AQ modeling purposes. The typical well is 1.1 acres with 6,000 sqft of paving.

Construction Phase - Construction phases adjusted for a typical well sites.

Trips and VMT - Per Hazen comments

Demolition - 2 tons used for typical SBA well site modeling.

Grading - Per Hazen comments. 111 CY are utilized for typical SBA well site modeling.

Architectural Coating - Rule 1113

Vehicle Trips - Per Hazen comments

Road Dust - Urban setting

Area Coating - Low VOC.

Energy Use - Per Hazen comments. 7.2 would be typical for a single well site.

Construction Off-road Equipment Mitigation - Adher to BMP measures and standard dust control plan.

Area Mitigation - Low VOC.

Off-road Equipment - Per Hazen comments.

Off-road Equipment - Per Hazen comments and to model for a typical well site.

Off-road Equipment - Per Hazen comments and to model a typical well site.

Off-road Equipment - Per Hazen comments and to model a typical well site.

Off-road Equipment - Per Hazen comments.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	150
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	4.00	50.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	2.00	35.00
tblEnergyUse	T24E	0.00	7.20
tblGrading	AcresOfGrading	17.50	1.10
tblGrading	AcresOfGrading	18.75	1.10
tblGrading	MaterialImported	0.00	111.00
tblLandUse	LotAcreage	0.14	1.10
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00

tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblRoadDust	RoadPercentPave	50	100

## 2.0 Emissions Summary

---





## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1627	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.3900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.1627</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.3900e-003</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1417	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.3900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.1417</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.3900e-003</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	12.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

---

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2018	3/12/2018	5	50	
2	Site Preparation	Site Preparation	3/13/2018	4/30/2018	5	35	
3	Grading	Grading	5/1/2018	7/9/2018	5	50	
4	Paving	Paving	7/10/2018	8/6/2018	5	20	

Acres of Grading (Site Preparation Phase): 1.1

Acres of Grading (Grading Phase): 1.1

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
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Graders	1	6.00	174	0.41
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	14.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Oxidation Catalyst for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

**3.2 Demolition - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9000e-004	0.0000	8.9000e-004	1.3000e-004	0.0000	1.3000e-004			0.0000			0.0000
Off-Road	2.3936	23.5008	19.6968	0.0245		1.3660	1.3660		1.2780	1.2780		2,427.2156	2,427.2156	0.6170		2,440.1728
<b>Total</b>	<b>2.3936</b>	<b>23.5008</b>	<b>19.6968</b>	<b>0.0245</b>	<b>8.9000e-004</b>	<b>1.3660</b>	<b>1.3668</b>	<b>1.3000e-004</b>	<b>1.2780</b>	<b>1.2782</b>		<b>2,427.2156</b>	<b>2,427.2156</b>	<b>0.6170</b>		<b>2,440.1728</b>

### 3.2 Demolition - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0414	0.0671	0.5636	1.1700e-003	0.1088	6.8000e-004	0.1095	0.0289	6.3000e-004	0.0295		88.1304	88.1304	5.4300e-003		88.2444
<b>Total</b>	<b>0.0414</b>	<b>0.0671</b>	<b>0.5636</b>	<b>1.1700e-003</b>	<b>0.1088</b>	<b>6.8000e-004</b>	<b>0.1095</b>	<b>0.0289</b>	<b>6.3000e-004</b>	<b>0.0295</b>		<b>88.1304</b>	<b>88.1304</b>	<b>5.4300e-003</b>		<b>88.2444</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.5000e-004	0.0000	3.5000e-004	5.0000e-005	0.0000	5.0000e-005			0.0000			0.0000
Off-Road	2.3936	19.9756	19.6968	0.0245		1.3660	1.3660		1.2780	1.2780	0.0000	2,427.2156	2,427.2156	0.6170		2,440.1728
<b>Total</b>	<b>2.3936</b>	<b>19.9756</b>	<b>19.6968</b>	<b>0.0245</b>	<b>3.5000e-004</b>	<b>1.3660</b>	<b>1.3663</b>	<b>5.0000e-005</b>	<b>1.2780</b>	<b>1.2781</b>	<b>0.0000</b>	<b>2,427.2156</b>	<b>2,427.2156</b>	<b>0.6170</b>		<b>2,440.1728</b>

### 3.2 Demolition - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0414	0.0671	0.5636	1.1700e-003	0.1088	6.8000e-004	0.1095	0.0289	6.3000e-004	0.0295		88.1304	88.1304	5.4300e-003			88.2444
<b>Total</b>	<b>0.0414</b>	<b>0.0671</b>	<b>0.5636</b>	<b>1.1700e-003</b>	<b>0.1088</b>	<b>6.8000e-004</b>	<b>0.1095</b>	<b>0.0289</b>	<b>6.3000e-004</b>	<b>0.0295</b>		<b>88.1304</b>	<b>88.1304</b>	<b>5.4300e-003</b>			<b>88.2444</b>

### 3.3 Site Preparation - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					5.3027	0.0000	5.3027	2.9001	0.0000	2.9001			0.0000			0.0000	
Off-Road	2.0397	21.1744	14.8464	0.0171		1.1260	1.1260		1.0359	1.0359		1,722.7816	1,722.7816	0.5363			1,734.0444
<b>Total</b>	<b>2.0397</b>	<b>21.1744</b>	<b>14.8464</b>	<b>0.0171</b>	<b>5.3027</b>	<b>1.1260</b>	<b>6.4287</b>	<b>2.9001</b>	<b>1.0359</b>	<b>3.9360</b>		<b>1,722.7816</b>	<b>1,722.7816</b>	<b>0.5363</b>			<b>1,734.0444</b>

### 3.3 Site Preparation - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0255	0.0413	0.3469	7.2000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		54.2341	54.2341	3.3400e-003			54.3042
<b>Total</b>	<b>0.0255</b>	<b>0.0413</b>	<b>0.3469</b>	<b>7.2000e-004</b>	<b>0.0669</b>	<b>4.2000e-004</b>	<b>0.0674</b>	<b>0.0178</b>	<b>3.9000e-004</b>	<b>0.0181</b>		<b>54.2341</b>	<b>54.2341</b>	<b>3.3400e-003</b>			<b>54.3042</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.0680	0.0000	2.0680	1.1310	0.0000	1.1310			0.0000				0.0000
Off-Road	2.0397	17.9982	14.8464	0.0171		1.1260	1.1260		1.0359	1.0359	0.0000	1,722.7816	1,722.7816	0.5363			1,734.0444
<b>Total</b>	<b>2.0397</b>	<b>17.9982</b>	<b>14.8464</b>	<b>0.0171</b>	<b>2.0680</b>	<b>1.1260</b>	<b>3.1941</b>	<b>1.1310</b>	<b>1.0359</b>	<b>2.1670</b>	<b>0.0000</b>	<b>1,722.7816</b>	<b>1,722.7816</b>	<b>0.5363</b>			<b>1,734.0444</b>

### 3.3 Site Preparation - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0255	0.0413	0.3469	7.2000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		54.2341	54.2341	3.3400e-003		54.3042
<b>Total</b>	<b>0.0255</b>	<b>0.0413</b>	<b>0.3469</b>	<b>7.2000e-004</b>	<b>0.0669</b>	<b>4.2000e-004</b>	<b>0.0674</b>	<b>0.0178</b>	<b>3.9000e-004</b>	<b>0.0181</b>		<b>54.2341</b>	<b>54.2341</b>	<b>3.3400e-003</b>		<b>54.3042</b>

### 3.4 Grading - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5403	0.0000	4.5403	2.4853	0.0000	2.4853			0.0000			0.0000
Off-Road	1.6639	17.3061	12.2672	0.0141		0.9184	0.9184		0.8450	0.8450		1,415.2041	1,415.2041	0.4406		1,424.4561
<b>Total</b>	<b>1.6639</b>	<b>17.3061</b>	<b>12.2672</b>	<b>0.0141</b>	<b>4.5403</b>	<b>0.9184</b>	<b>5.4588</b>	<b>2.4853</b>	<b>0.8450</b>	<b>3.3302</b>		<b>1,415.2041</b>	<b>1,415.2041</b>	<b>0.4406</b>		<b>1,424.4561</b>



### 3.4 Grading - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.6800e-003	0.0546	0.0714	2.0000e-004	4.9000e-003	1.3400e-003	6.2500e-003	1.3400e-003	1.2400e-003	2.5800e-003		19.0497	19.0497	1.1000e-004		19.0520
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0255	0.0413	0.3469	7.2000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		54.2341	54.2341	3.3400e-003		54.3042
<b>Total</b>	<b>0.0301</b>	<b>0.0960</b>	<b>0.4182</b>	<b>9.2000e-004</b>	<b>0.0718</b>	<b>1.7600e-003</b>	<b>0.0736</b>	<b>0.0191</b>	<b>1.6300e-003</b>	<b>0.0207</b>		<b>73.2838</b>	<b>73.2838</b>	<b>3.4500e-003</b>		<b>73.3562</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7707	0.0000	1.7707	0.9693	0.0000	0.9693			0.0000			0.0000
Off-Road	1.6639	14.7102	12.2672	0.0141		0.9184	0.9184		0.8450	0.8450	0.0000	1,415.2041	1,415.2041	0.4406		1,424.4561
<b>Total</b>	<b>1.6639</b>	<b>14.7102</b>	<b>12.2672</b>	<b>0.0141</b>	<b>1.7707</b>	<b>0.9184</b>	<b>2.6892</b>	<b>0.9693</b>	<b>0.8450</b>	<b>1.8142</b>	<b>0.0000</b>	<b>1,415.2041</b>	<b>1,415.2041</b>	<b>0.4406</b>		<b>1,424.4561</b>

### 3.4 Grading - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.6800e-003	0.0546	0.0714	2.0000e-004	4.9000e-003	1.3400e-003	6.2500e-003	1.3400e-003	1.2400e-003	2.5800e-003		19.0497	19.0497	1.1000e-004		19.0520
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0255	0.0413	0.3469	7.2000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		54.2341	54.2341	3.3400e-003		54.3042
<b>Total</b>	<b>0.0301</b>	<b>0.0960</b>	<b>0.4182</b>	<b>9.2000e-004</b>	<b>0.0718</b>	<b>1.7600e-003</b>	<b>0.0736</b>	<b>0.0191</b>	<b>1.6300e-003</b>	<b>0.0207</b>		<b>73.2838</b>	<b>73.2838</b>	<b>3.4500e-003</b>		<b>73.3562</b>

### 3.5 Paving - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0052	10.3081	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553		1,326.5758	1,326.5758	0.4051		1,335.0833
Paving	0.1441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1493</b>	<b>10.3081</b>	<b>8.8698</b>	<b>0.0133</b>		<b>0.6027</b>	<b>0.6027</b>		<b>0.5553</b>	<b>0.5553</b>		<b>1,326.5758</b>	<b>1,326.5758</b>	<b>0.4051</b>		<b>1,335.0833</b>

### 3.5 Paving - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0414	0.0671	0.5636	1.1700e-003	0.1088	6.8000e-004	0.1095	0.0289	6.3000e-004	0.0295		88.1304	88.1304	5.4300e-003			88.2444
<b>Total</b>	<b>0.0414</b>	<b>0.0671</b>	<b>0.5636</b>	<b>1.1700e-003</b>	<b>0.1088</b>	<b>6.8000e-004</b>	<b>0.1095</b>	<b>0.0289</b>	<b>6.3000e-004</b>	<b>0.0295</b>		<b>88.1304</b>	<b>88.1304</b>	<b>5.4300e-003</b>			<b>88.2444</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.0052	8.7619	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553	0.0000	1,326.5758	1,326.5758	0.4051			1,335.0833
Paving	0.1441					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.1493</b>	<b>8.7619</b>	<b>8.8698</b>	<b>0.0133</b>		<b>0.6027</b>	<b>0.6027</b>		<b>0.5553</b>	<b>0.5553</b>	<b>0.0000</b>	<b>1,326.5758</b>	<b>1,326.5758</b>	<b>0.4051</b>			<b>1,335.0833</b>

### 3.5 Paving - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0414	0.0671	0.5636	1.1700e-003	0.1088	6.8000e-004	0.1095	0.0289	6.3000e-004	0.0295		88.1304	88.1304	5.4300e-003		88.2444
<b>Total</b>	<b>0.0414</b>	<b>0.0671</b>	<b>0.5636</b>	<b>1.1700e-003</b>	<b>0.1088</b>	<b>6.8000e-004</b>	<b>0.1095</b>	<b>0.0289</b>	<b>6.3000e-004</b>	<b>0.0295</b>		<b>88.1304</b>	<b>88.1304</b>	<b>5.4300e-003</b>		<b>88.2444</b>

### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

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

### 4.2 Trip Summary Information

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

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.471073	0.065210	0.167869	0.157103	0.039378	0.006346	0.011728	0.072116	0.001386	0.001196	0.003702	0.000530	0.002362

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

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
lb/day											lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

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

#### Mitigated

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

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1417	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.3900e-003
Unmitigated	0.1627	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.3900e-003

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.3900e-003
<b>Total</b>	<b>0.1628</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>		<b>1.3900e-003</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0229					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1188					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.3900e-003
<b>Total</b>	<b>0.1417</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>		<b>1.3900e-003</b>

## 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
----------------	--------	-----------	-----------	-------------	-------------	-----------

## 10.0 Vegetation

---

**Hazen - Coachella Typical Well Site**  
**Salton Sea Air Basin, Summer**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	6.00	1000sqft	1.10	6,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	20
<b>Climate Zone</b>	15			<b>Operational Year</b>	2020
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MWhr)</b>	1270.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - A typical well site is used for AQ modeling purposes. The typical well is 1.1 acres with 6,000 sqft of paving.

Construction Phase - Construction phases adjusted for a typical well sites.

Trips and VMT - Per Hazen comments

Demolition - 2 tons used for typical SBA well site modeling.

Grading - Per Hazen comments. 111 CY are utilized for typical SBA well site modeling.

Architectural Coating - Rule 1113

Vehicle Trips - Per Hazen comments

Road Dust - Urban setting

Area Coating - Low VOC.

Energy Use - Per Hazen comments. 7.2 would be typical for a single well site.

Construction Off-road Equipment Mitigation - Adher to BMP measures and standard dust control plan.

Area Mitigation - Low VOC.

Off-road Equipment - Per Hazen comments.

Off-road Equipment - Per Hazen comments and to model for a typical well site.

Off-road Equipment - Per Hazen comments and to model a typical well site.

Off-road Equipment - Per Hazen comments and to model a typical well site.

Off-road Equipment - Per Hazen comments.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	150
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	4.00	50.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	2.00	35.00
tblEnergyUse	T24E	0.00	7.20
tblGrading	AcresOfGrading	17.50	1.10
tblGrading	AcresOfGrading	18.75	1.10
tblGrading	MaterialImported	0.00	111.00
tblLandUse	LotAcreage	0.14	1.10
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00

tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblRoadDust	RoadPercentPave	50	100

## 2.0 Emissions Summary

---



## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1627	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.3900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.1627</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.3900e-003</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1417	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.3900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.1417</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.3900e-003</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	12.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

---

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2018	3/12/2018	5	50	
2	Site Preparation	Site Preparation	3/13/2018	4/30/2018	5	35	
3	Grading	Grading	5/1/2018	7/9/2018	5	50	
4	Paving	Paving	7/10/2018	8/6/2018	5	20	

Acres of Grading (Site Preparation Phase): 1.1

Acres of Grading (Grading Phase): 1.1

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
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Graders	1	6.00	174	0.41
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	14.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Oxidation Catalyst for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

**3.2 Demolition - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9000e-004	0.0000	8.9000e-004	1.3000e-004	0.0000	1.3000e-004			0.0000			0.0000
Off-Road	2.3936	23.5008	19.6968	0.0245		1.3660	1.3660		1.2780	1.2780		2,427.2156	2,427.2156	0.6170		2,440.1728
<b>Total</b>	<b>2.3936</b>	<b>23.5008</b>	<b>19.6968</b>	<b>0.0245</b>	<b>8.9000e-004</b>	<b>1.3660</b>	<b>1.3668</b>	<b>1.3000e-004</b>	<b>1.2780</b>	<b>1.2782</b>		<b>2,427.2156</b>	<b>2,427.2156</b>	<b>0.6170</b>		<b>2,440.1728</b>

### 3.2 Demolition - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0556	0.0606	0.6844	1.2700e-003	0.1088	6.8000e-004	0.1095	0.0289	6.3000e-004	0.0295		95.0413	95.0413	5.4300e-003		95.1553
<b>Total</b>	<b>0.0556</b>	<b>0.0606</b>	<b>0.6844</b>	<b>1.2700e-003</b>	<b>0.1088</b>	<b>6.8000e-004</b>	<b>0.1095</b>	<b>0.0289</b>	<b>6.3000e-004</b>	<b>0.0295</b>		<b>95.0413</b>	<b>95.0413</b>	<b>5.4300e-003</b>		<b>95.1553</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.5000e-004	0.0000	3.5000e-004	5.0000e-005	0.0000	5.0000e-005			0.0000			0.0000
Off-Road	2.3936	19.9756	19.6968	0.0245		1.3660	1.3660		1.2780	1.2780	0.0000	2,427.2156	2,427.2156	0.6170		2,440.1728
<b>Total</b>	<b>2.3936</b>	<b>19.9756</b>	<b>19.6968</b>	<b>0.0245</b>	<b>3.5000e-004</b>	<b>1.3660</b>	<b>1.3663</b>	<b>5.0000e-005</b>	<b>1.2780</b>	<b>1.2781</b>	<b>0.0000</b>	<b>2,427.2156</b>	<b>2,427.2156</b>	<b>0.6170</b>		<b>2,440.1728</b>

### 3.2 Demolition - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0556	0.0606	0.6844	1.2700e-003	0.1088	6.8000e-004	0.1095	0.0289	6.3000e-004	0.0295		95.0413	95.0413	5.4300e-003			95.1553
<b>Total</b>	<b>0.0556</b>	<b>0.0606</b>	<b>0.6844</b>	<b>1.2700e-003</b>	<b>0.1088</b>	<b>6.8000e-004</b>	<b>0.1095</b>	<b>0.0289</b>	<b>6.3000e-004</b>	<b>0.0295</b>		<b>95.0413</b>	<b>95.0413</b>	<b>5.4300e-003</b>			<b>95.1553</b>

### 3.3 Site Preparation - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3027	0.0000	5.3027	2.9001	0.0000	2.9001			0.0000			0.0000
Off-Road	2.0397	21.1744	14.8464	0.0171		1.1260	1.1260		1.0359	1.0359		1,722.7816	1,722.7816	0.5363		1,734.0444
<b>Total</b>	<b>2.0397</b>	<b>21.1744</b>	<b>14.8464</b>	<b>0.0171</b>	<b>5.3027</b>	<b>1.1260</b>	<b>6.4287</b>	<b>2.9001</b>	<b>1.0359</b>	<b>3.9360</b>		<b>1,722.7816</b>	<b>1,722.7816</b>	<b>0.5363</b>		<b>1,734.0444</b>

### 3.3 Site Preparation - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0342	0.0373	0.4212	7.8000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		58.4870	58.4870	3.3400e-003			58.5571
<b>Total</b>	<b>0.0342</b>	<b>0.0373</b>	<b>0.4212</b>	<b>7.8000e-004</b>	<b>0.0669</b>	<b>4.2000e-004</b>	<b>0.0674</b>	<b>0.0178</b>	<b>3.9000e-004</b>	<b>0.0181</b>		<b>58.4870</b>	<b>58.4870</b>	<b>3.3400e-003</b>			<b>58.5571</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.0680	0.0000	2.0680	1.1310	0.0000	1.1310			0.0000			0.0000	
Off-Road	2.0397	17.9982	14.8464	0.0171		1.1260	1.1260		1.0359	1.0359	0.0000	1,722.7816	1,722.7816	0.5363			1,734.0444
<b>Total</b>	<b>2.0397</b>	<b>17.9982</b>	<b>14.8464</b>	<b>0.0171</b>	<b>2.0680</b>	<b>1.1260</b>	<b>3.1941</b>	<b>1.1310</b>	<b>1.0359</b>	<b>2.1670</b>	<b>0.0000</b>	<b>1,722.7816</b>	<b>1,722.7816</b>	<b>0.5363</b>			<b>1,734.0444</b>

### 3.3 Site Preparation - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0342	0.0373	0.4212	7.8000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		58.4870	58.4870	3.3400e-003		58.5571
<b>Total</b>	<b>0.0342</b>	<b>0.0373</b>	<b>0.4212</b>	<b>7.8000e-004</b>	<b>0.0669</b>	<b>4.2000e-004</b>	<b>0.0674</b>	<b>0.0178</b>	<b>3.9000e-004</b>	<b>0.0181</b>		<b>58.4870</b>	<b>58.4870</b>	<b>3.3400e-003</b>		<b>58.5571</b>

### 3.4 Grading - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5403	0.0000	4.5403	2.4853	0.0000	2.4853			0.0000			0.0000
Off-Road	1.6639	17.3061	12.2672	0.0141		0.9184	0.9184		0.8450	0.8450		1,415.2041	1,415.2041	0.4406		1,424.4561
<b>Total</b>	<b>1.6639</b>	<b>17.3061</b>	<b>12.2672</b>	<b>0.0141</b>	<b>4.5403</b>	<b>0.9184</b>	<b>5.4588</b>	<b>2.4853</b>	<b>0.8450</b>	<b>3.3302</b>		<b>1,415.2041</b>	<b>1,415.2041</b>	<b>0.4406</b>		<b>1,424.4561</b>

### 3.4 Grading - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3200e-003	0.0506	0.0587	2.0000e-004	4.9000e-003	1.3400e-003	6.2400e-003	1.3400e-003	1.2300e-003	2.5800e-003		19.0976	19.0976	1.1000e-004		19.0999
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0342	0.0373	0.4212	7.8000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		58.4870	58.4870	3.3400e-003		58.5571
<b>Total</b>	<b>0.0385</b>	<b>0.0879</b>	<b>0.4798</b>	<b>9.8000e-004</b>	<b>0.0718</b>	<b>1.7600e-003</b>	<b>0.0736</b>	<b>0.0191</b>	<b>1.6200e-003</b>	<b>0.0207</b>		<b>77.5846</b>	<b>77.5846</b>	<b>3.4500e-003</b>		<b>77.6570</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7707	0.0000	1.7707	0.9693	0.0000	0.9693			0.0000			0.0000
Off-Road	1.6639	14.7102	12.2672	0.0141		0.9184	0.9184		0.8450	0.8450	0.0000	1,415.2041	1,415.2041	0.4406		1,424.4561
<b>Total</b>	<b>1.6639</b>	<b>14.7102</b>	<b>12.2672</b>	<b>0.0141</b>	<b>1.7707</b>	<b>0.9184</b>	<b>2.6892</b>	<b>0.9693</b>	<b>0.8450</b>	<b>1.8142</b>	<b>0.0000</b>	<b>1,415.2041</b>	<b>1,415.2041</b>	<b>0.4406</b>		<b>1,424.4561</b>

### 3.4 Grading - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3200e-003	0.0506	0.0587	2.0000e-004	4.9000e-003	1.3400e-003	6.2400e-003	1.3400e-003	1.2300e-003	2.5800e-003		19.0976	19.0976	1.1000e-004		19.0999
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0342	0.0373	0.4212	7.8000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		58.4870	58.4870	3.3400e-003		58.5571
<b>Total</b>	<b>0.0385</b>	<b>0.0879</b>	<b>0.4798</b>	<b>9.8000e-004</b>	<b>0.0718</b>	<b>1.7600e-003</b>	<b>0.0736</b>	<b>0.0191</b>	<b>1.6200e-003</b>	<b>0.0207</b>		<b>77.5846</b>	<b>77.5846</b>	<b>3.4500e-003</b>		<b>77.6570</b>

### 3.5 Paving - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0052	10.3081	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553		1,326.5758	1,326.5758	0.4051		1,335.0833
Paving	0.1441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1493</b>	<b>10.3081</b>	<b>8.8698</b>	<b>0.0133</b>		<b>0.6027</b>	<b>0.6027</b>		<b>0.5553</b>	<b>0.5553</b>		<b>1,326.5758</b>	<b>1,326.5758</b>	<b>0.4051</b>		<b>1,335.0833</b>



### 3.5 Paving - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0556	0.0606	0.6844	1.2700e-003	0.1088	6.8000e-004	0.1095	0.0289	6.3000e-004	0.0295		95.0413	95.0413	5.4300e-003		95.1553
<b>Total</b>	<b>0.0556</b>	<b>0.0606</b>	<b>0.6844</b>	<b>1.2700e-003</b>	<b>0.1088</b>	<b>6.8000e-004</b>	<b>0.1095</b>	<b>0.0289</b>	<b>6.3000e-004</b>	<b>0.0295</b>		<b>95.0413</b>	<b>95.0413</b>	<b>5.4300e-003</b>		<b>95.1553</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0052	8.7619	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553	0.0000	1,326.5758	1,326.5758	0.4051		1,335.0833
Paving	0.1441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1493</b>	<b>8.7619</b>	<b>8.8698</b>	<b>0.0133</b>		<b>0.6027</b>	<b>0.6027</b>		<b>0.5553</b>	<b>0.5553</b>	<b>0.0000</b>	<b>1,326.5758</b>	<b>1,326.5758</b>	<b>0.4051</b>		<b>1,335.0833</b>

### 3.5 Paving - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0556	0.0606	0.6844	1.2700e-003	0.1088	6.8000e-004	0.1095	0.0289	6.3000e-004	0.0295		95.0413	95.0413	5.4300e-003		95.1553
<b>Total</b>	<b>0.0556</b>	<b>0.0606</b>	<b>0.6844</b>	<b>1.2700e-003</b>	<b>0.1088</b>	<b>6.8000e-004</b>	<b>0.1095</b>	<b>0.0289</b>	<b>6.3000e-004</b>	<b>0.0295</b>		<b>95.0413</b>	<b>95.0413</b>	<b>5.4300e-003</b>		<b>95.1553</b>

### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

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

### 4.2 Trip Summary Information

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

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.471073	0.065210	0.167869	0.157103	0.039378	0.006346	0.011728	0.072116	0.001386	0.001196	0.003702	0.000530	0.002362

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

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
lb/day											lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

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

#### Mitigated

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

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1417	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.3900e-003
Unmitigated	0.1627	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.3900e-003

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.3900e-003
<b>Total</b>	<b>0.1628</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>		<b>1.3900e-003</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0229					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1188					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.3900e-003
<b>Total</b>	<b>0.1417</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>		<b>1.3900e-003</b>

## 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
----------------	--------	-----------	-----------	-------------	-------------	-----------

## 10.0 Vegetation

---

**CWA CR6 Project: Option 1A and 2 Well Sites**  
**Salton Sea Air Basin, Annual**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	30.00	1000sqft	4.98	30,000.00	0
General Light Industry	1.00	1000sqft	0.02	1,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	20
<b>Climate Zone</b>	15			<b>Operational Year</b>	2020
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MWhr)</b>	1270.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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



Project Characteristics -

Land Use - The General Light Industry land use is provided for electricity demand analysis purposes. No new structure will be built.

Construction Phase - Assumes a 2 year buildout for well site upgrades. Approx. early 2018 to late 2019.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent. Assumes equipment needed for well site upgrades in addition to grading equipment.

Off-road Equipment - Equipment list provided by project proponent.

Grading - Assumes 555 CY of AB Base.

Demolition -

Trips and VMT - Assumes 30 miles, one way, for hauling trips.

On-road Fugitive Dust - All roads in project area are paved.

Architectural Coating -

Vehicle Trips - No new trips will be generated.

Road Dust - All roads are paved.

Landscape Equipment - No landscaping is proposed.

Energy Use - Assumes 1,080,000kWh per year for all well sites.

Water And Wastewater - No new water use.

Solid Waste - No solid waste generated.

Construction Off-road Equipment Mitigation - Apply standard dust control measures and equipment to use oxidation catalysts with 15% reduction.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00



tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	8.00	100.00
tblConstructionPhase	NumDays	18.00	100.00
tblConstructionPhase	NumDays	5.00	100.00
tblEnergyUse	LightingElect	3.36	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.69	1,080.00
tblEnergyUse	T24NG	16.16	0.00
tblGrading	AcresOfGrading	75.00	4.00
tblGrading	AcresOfGrading	25.00	0.00
tblGrading	MaterialImported	0.00	555.00
tblLandUse	LotAcreage	0.69	4.98
tblOffRoadEquipment	HorsePower	81.00	9.00
tblOffRoadEquipment	LoadFactor	0.73	0.56
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20

tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.46	0.46
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.46	0.46
tblOffRoadEquipment	OffRoadEquipmentType	Cement and Mortar Mixers	Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pressure Washers
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Sweepers/Scrubbers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Pumps



tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblRoadDust	RoadPercentPave	50	100
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

## 2.0 Emissions Summary

---



**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1570	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	622.5882	622.5882	0.0142	2.9400e-003	623.7977
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0734	1.7358	1.8092	7.5700e-003	1.9000e-004	2.0260
<b>Total</b>	<b>0.1570</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0734</b>	<b>624.3246</b>	<b>624.3979</b>	<b>0.0218</b>	<b>3.1300e-003</b>	<b>625.8242</b>



## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1570	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	622.5882	622.5882	0.0142	2.9400e-003	623.7977
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0734	1.7358	1.8092	7.5700e-003	1.9000e-004	2.0258
<b>Total</b>	<b>0.1570</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0734</b>	<b>624.3246</b>	<b>624.3979</b>	<b>0.0218</b>	<b>3.1300e-003</b>	<b>625.8241</b>

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

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	5/18/2018	5	100	
2	Site Preparation	Site Preparation	5/19/2018	10/5/2018	5	100	
3	Grading	Grading	10/6/2018	2/22/2019	5	100	
4	Paving	Paving	2/23/2019	7/12/2019	5	100	

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

**Acres of Grading (Grading Phase): 4**

**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
Demolition	Concrete/Industrial Saws	2	4.00	81	0.73
Demolition	Rubber Tired Dozers	1	4.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Site Preparation	Graders	1	4.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	4.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Grading	Graders	1	4.00	174	0.41
Grading	Rubber Tired Dozers	2	4.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Paving	Concrete/Industrial Saws	2	4.00	9	0.56
Paving	Pavers	1	4.00	125	0.42
Paving	Paving Equipment	1	4.00	130	0.36
Paving	Rollers	1	4.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	4.00	97	0.37

Demolition	Air Compressors	1	4.00	78	0.48
Demolition	Crawler Tractors	2	4.00	208	0.43
Demolition	Excavators	1	4.00	162	0.38
Demolition	Forklifts	1	4.00	89	0.20
Demolition	Generator Sets	2	4.00	84	0.74
Demolition	Pressure Washers	2	4.00	13	0.30
Demolition	Skid Steer Loaders	2	4.00	64	0.37
Demolition	Sweepers/Scrubbers	2	4.00	64	0.46
Grading	Concrete/Industrial Saws	2	4.00	81	0.73
Grading	Crawler Tractors	2	4.00	208	0.43
Grading	Excavators	2	4.00	162	0.38
Grading	Air Compressors	2	4.00	78	0.48
Grading	Plate Compactors	2	4.00	8	0.43
Grading	Welders	2	4.00	46	0.45
Grading	Other Construction Equipment	2	4.00	171	0.42
Grading	Pumps	2	4.00	84	0.74
Grading	Pressure Washers	2	4.00	13	0.30
Grading	Rough Terrain Forklifts	2	4.00	100	0.40
Grading	Aerial Lifts	2	4.00	62	0.31
Grading	Cranes	1	4.00	226	0.29
Grading			0.00		
Paving	Crawler Tractors	1	4.00	208	0.43
Paving	Plate Compactors	1	4.00	8	0.43
Paving	Skid Steer Loaders	1	4.00	64	0.37
Paving	Sweepers/Scrubbers	1	4.00	64	0.46

**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
Demolition	18	45.00	0.00	1.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	28	70.00	0.00	55.00	11.00	5.40	30.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

### 3.2 Demolition - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1669	1.6353	1.2015	1.9300e-003		0.0918	0.0918		0.0870	0.0870	0.0000	171.4020	171.4020	0.0381	0.0000	172.2023
<b>Total</b>	<b>0.1669</b>	<b>1.6353</b>	<b>1.2015</b>	<b>1.9300e-003</b>	<b>1.1000e-004</b>	<b>0.0918</b>	<b>0.0919</b>	<b>2.0000e-005</b>	<b>0.0870</b>	<b>0.0871</b>	<b>0.0000</b>	<b>171.4020</b>	<b>171.4020</b>	<b>0.0381</b>	<b>0.0000</b>	<b>172.2023</b>

### 3.2 Demolition - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.0000e-004	1.1000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0309	0.0309	0.0000	0.0000	0.0309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7600e-003	0.0112	0.1059	2.2000e-004	0.0186	1.2000e-004	0.0187	4.9400e-003	1.1000e-004	5.0500e-003	0.0000	14.6438	14.6438	8.5000e-004	0.0000	14.6617
<b>Total</b>	<b>7.7700e-003</b>	<b>0.0113</b>	<b>0.1060</b>	<b>2.2000e-004</b>	<b>0.0186</b>	<b>1.2000e-004</b>	<b>0.0187</b>	<b>4.9400e-003</b>	<b>1.1000e-004</b>	<b>5.0500e-003</b>	<b>0.0000</b>	<b>14.6747</b>	<b>14.6747</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>14.6926</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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1669	1.3900	1.2015	1.9300e-003		0.0918	0.0918		0.0870	0.0870	0.0000	171.4018	171.4018	0.0381	0.0000	172.2021
<b>Total</b>	<b>0.1669</b>	<b>1.3900</b>	<b>1.2015</b>	<b>1.9300e-003</b>	<b>4.0000e-005</b>	<b>0.0918</b>	<b>0.0918</b>	<b>1.0000e-005</b>	<b>0.0870</b>	<b>0.0870</b>	<b>0.0000</b>	<b>171.4018</b>	<b>171.4018</b>	<b>0.0381</b>	<b>0.0000</b>	<b>172.2021</b>

### 3.2 Demolition - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.0000e-004	1.1000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0309	0.0309	0.0000	0.0000	0.0309
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7600e-003	0.0112	0.1059	2.2000e-004	0.0186	1.2000e-004	0.0187	4.9400e-003	1.1000e-004	5.0500e-003	0.0000	14.6438	14.6438	8.5000e-004	0.0000	14.6617
<b>Total</b>	<b>7.7700e-003</b>	<b>0.0113</b>	<b>0.1060</b>	<b>2.2000e-004</b>	<b>0.0186</b>	<b>1.2000e-004</b>	<b>0.0187</b>	<b>4.9400e-003</b>	<b>1.1000e-004</b>	<b>5.0500e-003</b>	<b>0.0000</b>	<b>14.6747</b>	<b>14.6747</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>14.6926</b>

### 3.3 Site Preparation - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1506	0.0000	0.1506	0.0828	0.0000	0.0828	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5659	0.3992	4.6000e-004		0.0298	0.0298		0.0275	0.0275	0.0000	41.6128	41.6128	0.0130	0.0000	41.8848
<b>Total</b>	<b>0.0544</b>	<b>0.5659</b>	<b>0.3992</b>	<b>4.6000e-004</b>	<b>0.1506</b>	<b>0.0298</b>	<b>0.1804</b>	<b>0.0828</b>	<b>0.0275</b>	<b>0.1102</b>	<b>0.0000</b>	<b>41.6128</b>	<b>41.6128</b>	<b>0.0130</b>	<b>0.0000</b>	<b>41.8848</b>

### 3.3 Site Preparation - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3800e-003	2.0000e-003	0.0188	4.0000e-005	3.3100e-003	2.0000e-005	3.3300e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6033	2.6033	1.5000e-004	0.0000	2.6065
<b>Total</b>	<b>1.3800e-003</b>	<b>2.0000e-003</b>	<b>0.0188</b>	<b>4.0000e-005</b>	<b>3.3100e-003</b>	<b>2.0000e-005</b>	<b>3.3300e-003</b>	<b>8.8000e-004</b>	<b>2.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.6033</b>	<b>2.6033</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.6065</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					0.0587	0.0000	0.0587	0.0323	0.0000	0.0323	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.4810	0.3992	4.6000e-004		0.0298	0.0298		0.0275	0.0275	0.0000	41.6127	41.6127	0.0130	0.0000	41.8848
<b>Total</b>	<b>0.0544</b>	<b>0.4810</b>	<b>0.3992</b>	<b>4.6000e-004</b>	<b>0.0587</b>	<b>0.0298</b>	<b>0.0886</b>	<b>0.0323</b>	<b>0.0275</b>	<b>0.0597</b>	<b>0.0000</b>	<b>41.6127</b>	<b>41.6127</b>	<b>0.0130</b>	<b>0.0000</b>	<b>41.8848</b>

### 3.3 Site Preparation - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3800e-003	2.0000e-003	0.0188	4.0000e-005	3.3100e-003	2.0000e-005	3.3300e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6033	2.6033	1.5000e-004	0.0000	2.6065
<b>Total</b>	<b>1.3800e-003</b>	<b>2.0000e-003</b>	<b>0.0188</b>	<b>4.0000e-005</b>	<b>3.3100e-003</b>	<b>2.0000e-005</b>	<b>3.3300e-003</b>	<b>8.8000e-004</b>	<b>2.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.6033</b>	<b>2.6033</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.6065</b>

### 3.4 Grading - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3032	0.0000	0.3032	0.1657	0.0000	0.1657	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1733	1.6775	1.2391	1.9100e-003		0.0880	0.0880		0.0831	0.0831	0.0000	169.0506	169.0506	0.0414	0.0000	169.9196
<b>Total</b>	<b>0.1733</b>	<b>1.6775</b>	<b>1.2391</b>	<b>1.9100e-003</b>	<b>0.3032</b>	<b>0.0880</b>	<b>0.3912</b>	<b>0.1657</b>	<b>0.0831</b>	<b>0.2489</b>	<b>0.0000</b>	<b>169.0506</b>	<b>169.0506</b>	<b>0.0414</b>	<b>0.0000</b>	<b>169.9196</b>



### 3.4 Grading - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	4.6800e-003	4.2900e-003	2.0000e-005	6.5000e-004	1.2000e-004	7.7000e-004	1.7000e-004	1.1000e-004	2.8000e-004	0.0000	1.5426	1.5426	1.0000e-005	0.0000	1.5428
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3700e-003	0.0107	0.1004	2.0000e-004	0.0177	1.1000e-004	0.0178	4.6900e-003	1.0000e-004	4.7900e-003	0.0000	13.8953	13.8953	8.1000e-004	0.0000	13.9123
<b>Total</b>	<b>7.6900e-003</b>	<b>0.0153</b>	<b>0.1047</b>	<b>2.2000e-004</b>	<b>0.0183</b>	<b>2.3000e-004</b>	<b>0.0185</b>	<b>4.8600e-003</b>	<b>2.1000e-004</b>	<b>5.0700e-003</b>	<b>0.0000</b>	<b>15.4379</b>	<b>15.4379</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>15.4551</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					0.1183	0.0000	0.1183	0.0646	0.0000	0.0646	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1733	1.4259	1.2391	1.9100e-003		0.0880	0.0880		0.0831	0.0831	0.0000	169.0504	169.0504	0.0414	0.0000	169.9194
<b>Total</b>	<b>0.1733</b>	<b>1.4259</b>	<b>1.2391</b>	<b>1.9100e-003</b>	<b>0.1183</b>	<b>0.0880</b>	<b>0.2063</b>	<b>0.0646</b>	<b>0.0831</b>	<b>0.1478</b>	<b>0.0000</b>	<b>169.0504</b>	<b>169.0504</b>	<b>0.0414</b>	<b>0.0000</b>	<b>169.9194</b>

### 3.4 Grading - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.2000e-004	4.6800e-003	4.2900e-003	2.0000e-005	6.5000e-004	1.2000e-004	7.7000e-004	1.7000e-004	1.1000e-004	2.8000e-004	0.0000	1.5426	1.5426	1.0000e-005	0.0000	1.5428
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3700e-003	0.0107	0.1004	2.0000e-004	0.0177	1.1000e-004	0.0178	4.6900e-003	1.0000e-004	4.7900e-003	0.0000	13.8953	13.8953	8.1000e-004	0.0000	13.9123
<b>Total</b>	<b>7.6900e-003</b>	<b>0.0153</b>	<b>0.1047</b>	<b>2.2000e-004</b>	<b>0.0183</b>	<b>2.3000e-004</b>	<b>0.0185</b>	<b>4.8600e-003</b>	<b>2.1000e-004</b>	<b>5.0700e-003</b>	<b>0.0000</b>	<b>15.4379</b>	<b>15.4379</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>15.4551</b>

### 3.4 Grading - 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					0.3032	0.0000	0.3032	0.1657	0.0000	0.1657	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1017	0.9910	0.7760	1.2200e-003		0.0504	0.0504		0.0476	0.0476	0.0000	106.8730	106.8730	0.0261	0.0000	107.4215
<b>Total</b>	<b>0.1017</b>	<b>0.9910</b>	<b>0.7760</b>	<b>1.2200e-003</b>	<b>0.3032</b>	<b>0.0504</b>	<b>0.3536</b>	<b>0.1657</b>	<b>0.0476</b>	<b>0.2133</b>	<b>0.0000</b>	<b>106.8730</b>	<b>106.8730</b>	<b>0.0261</b>	<b>0.0000</b>	<b>107.4215</b>

### 3.4 Grading - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	2.7500e-003	2.6700e-003	1.0000e-005	6.1000e-004	7.0000e-005	6.8000e-004	1.6000e-004	7.0000e-005	2.3000e-004	0.0000	0.9696	0.9696	1.0000e-005	0.0000	0.9697
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	4.3200e-003	6.2900e-003	0.0594	1.3000e-004	0.0113	7.0000e-005	0.0114	3.0000e-003	7.0000e-005	3.0600e-003	0.0000	8.5504	8.5504	4.9000e-004	0.0000	8.5606
<b>Total</b>	<b>4.5200e-003</b>	<b>9.0400e-003</b>	<b>0.0621</b>	<b>1.4000e-004</b>	<b>0.0119</b>	<b>1.4000e-004</b>	<b>0.0120</b>	<b>3.1600e-003</b>	<b>1.4000e-004</b>	<b>3.2900e-003</b>	<b>0.0000</b>	<b>9.5199</b>	<b>9.5199</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.5303</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					0.1183	0.0000	0.1183	0.0646	0.0000	0.0646	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1017	0.8423	0.7760	1.2200e-003		0.0504	0.0504		0.0476	0.0476	0.0000	106.8729	106.8729	0.0261	0.0000	107.4214
<b>Total</b>	<b>0.1017</b>	<b>0.8423</b>	<b>0.7760</b>	<b>1.2200e-003</b>	<b>0.1183</b>	<b>0.0504</b>	<b>0.1687</b>	<b>0.0646</b>	<b>0.0476</b>	<b>0.1122</b>	<b>0.0000</b>	<b>106.8729</b>	<b>106.8729</b>	<b>0.0261</b>	<b>0.0000</b>	<b>107.4214</b>

### 3.4 Grading - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	2.7500e-003	2.6700e-003	1.0000e-005	6.1000e-004	7.0000e-005	6.8000e-004	1.6000e-004	7.0000e-005	2.3000e-004	0.0000	0.9696	0.9696	1.0000e-005	0.0000	0.9697
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	4.3200e-003	6.2900e-003	0.0594	1.3000e-004	0.0113	7.0000e-005	0.0114	3.0000e-003	7.0000e-005	3.0600e-003	0.0000	8.5504	8.5504	4.9000e-004	0.0000	8.5606
<b>Total</b>	<b>4.5200e-003</b>	<b>9.0400e-003</b>	<b>0.0621</b>	<b>1.4000e-004</b>	<b>0.0119</b>	<b>1.4000e-004</b>	<b>0.0120</b>	<b>3.1600e-003</b>	<b>1.4000e-004</b>	<b>3.2900e-003</b>	<b>0.0000</b>	<b>9.5199</b>	<b>9.5199</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.5303</b>

### 3.5 Paving - 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	0.0487	0.5359	0.3890	6.7000e-004		0.0279	0.0279		0.0257	0.0257	0.0000	60.2571	60.2571	0.0189	0.0000	60.6540
Paving	6.5200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0552</b>	<b>0.5359</b>	<b>0.3890</b>	<b>6.7000e-004</b>		<b>0.0279</b>	<b>0.0279</b>		<b>0.0257</b>	<b>0.0257</b>	<b>0.0000</b>	<b>60.2571</b>	<b>60.2571</b>	<b>0.0189</b>	<b>0.0000</b>	<b>60.6540</b>

### 3.5 Paving - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9600e-003	5.7600e-003	0.0544	1.2000e-004	0.0103	7.0000e-005	0.0104	2.7400e-003	6.0000e-005	2.8000e-003	0.0000	7.8300	7.8300	4.5000e-004	0.0000	7.8394
<b>Total</b>	<b>3.9600e-003</b>	<b>5.7600e-003</b>	<b>0.0544</b>	<b>1.2000e-004</b>	<b>0.0103</b>	<b>7.0000e-005</b>	<b>0.0104</b>	<b>2.7400e-003</b>	<b>6.0000e-005</b>	<b>2.8000e-003</b>	<b>0.0000</b>	<b>7.8300</b>	<b>7.8300</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>7.8394</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	0.0487	0.4555	0.3890	6.7000e-004		0.0279	0.0279		0.0257	0.0257	0.0000	60.2571	60.2571	0.0189	0.0000	60.6539
Paving	6.5200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0552</b>	<b>0.4555</b>	<b>0.3890</b>	<b>6.7000e-004</b>		<b>0.0279</b>	<b>0.0279</b>		<b>0.0257</b>	<b>0.0257</b>	<b>0.0000</b>	<b>60.2571</b>	<b>60.2571</b>	<b>0.0189</b>	<b>0.0000</b>	<b>60.6539</b>



**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.471073	0.065210	0.167869	0.157103	0.039378	0.006346	0.011728	0.072116	0.001386	0.001196	0.003702	0.000530	0.002362

**5.0 Energy Detail**

**4.4 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**





### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

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

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.08e+006	622.5882	0.0142	2.9400e-003	623.7977
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>622.5882</b>	<b>0.0142</b>	<b>2.9400e-003</b>	<b>623.7977</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.08e+006	622.5882	0.0142	2.9400e-003	623.7977
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>622.5882</b>	<b>0.0142</b>	<b>2.9400e-003</b>	<b>623.7977</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1570	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
Unmitigated	0.1570	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1211					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
<b>Total</b>	<b>0.1570</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.9000e-004</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0359					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1211					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.5000e-004	5.5000e-004	0.0000	0.0000	5.9000e-004
<b>Total</b>	<b>0.1570</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.9000e-004</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.8092	7.5700e-003	1.9000e-004	2.0258
Unmitigated	1.8092	7.5700e-003	1.9000e-004	2.0260

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.23125 / 0	1.8092	7.5700e-003	1.9000e-004	2.0260
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.8092</b>	<b>7.5700e-003</b>	<b>1.9000e-004</b>	<b>2.0260</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.23125 / 0	1.8092	7.5700e-003	1.9000e-004	2.0258
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.8092</b>	<b>7.5700e-003</b>	<b>1.9000e-004</b>	<b>2.0258</b>

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

#### Category/Year

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

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 9.0 Operational Offroad

---

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

## **10.0 Vegetation**

---

**CWA CR6 Project: Option 1A and 2 Well Sites**  
**Salton Sea Air Basin, Summer**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	30.00	1000sqft	4.98	30,000.00	0
General Light Industry	1.00	1000sqft	0.02	1,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	20
<b>Climate Zone</b>	15			<b>Operational Year</b>	2020
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MWhr)</b>	1270.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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



Project Characteristics -

Land Use - The General Light Industry land use is provided for electricity demand analysis purposes. No new structure will be built.

Construction Phase - Assumes a 2 year buildout for well site upgrades. Approx. early 2018 to late 2019.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent. Assumes equipment needed for well site upgrades in addition to grading equipment.

Off-road Equipment - Equipment list provided by project proponent.

Grading - Assumes 555 CY of AB Base.

Demolition -

Trips and VMT - Assumes 30 miles, one way, for hauling trips.

On-road Fugitive Dust - All roads in project area are paved.

Architectural Coating -

Vehicle Trips - No new trips will be generated.

Road Dust - All roads are paved.

Landscape Equipment - No landscaping is proposed.

Energy Use - Assumes 1,080,000kWh per year for all well sites.

Water And Wastewater - No new water use.

Solid Waste - No solid waste generated.

Construction Off-road Equipment Mitigation - Apply standard dust control measures and equipment to use oxidation catalysts with 15% reduction.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00



tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	8.00	100.00
tblConstructionPhase	NumDays	18.00	100.00
tblConstructionPhase	NumDays	5.00	100.00
tblEnergyUse	LightingElect	3.36	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.69	1,080.00
tblEnergyUse	T24NG	16.16	0.00
tblGrading	AcresOfGrading	75.00	4.00
tblGrading	AcresOfGrading	25.00	0.00
tblGrading	MaterialImported	0.00	555.00
tblLandUse	LotAcreage	0.69	4.98
tblOffRoadEquipment	HorsePower	81.00	9.00
tblOffRoadEquipment	LoadFactor	0.73	0.56
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20

tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.46	0.46
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.46	0.46
tblOffRoadEquipment	OffRoadEquipmentType	Cement and Mortar Mixers	Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pressure Washers
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Sweepers/Scrubbers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Pumps



tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblRoadDust	RoadPercentPave	50	100
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

## 2.0 Emissions Summary

---



## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8605	3.0000e-005	3.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7800e-003	6.7800e-003	2.0000e-005		7.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.8605</b>	<b>3.0000e-005</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>6.7800e-003</b>	<b>6.7800e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>7.1700e-003</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8605	3.0000e-005	3.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7800e-003	6.7800e-003	2.0000e-005		7.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.8605</b>	<b>3.0000e-005</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>6.7800e-003</b>	<b>6.7800e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>7.1700e-003</b>



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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	5/18/2018	5	100	
2	Site Preparation	Site Preparation	5/19/2018	10/5/2018	5	100	
3	Grading	Grading	10/6/2018	2/22/2019	5	100	
4	Paving	Paving	2/23/2019	7/12/2019	5	100	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

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
Demolition	Concrete/Industrial Saws	2	4.00	81	0.73
Demolition	Rubber Tired Dozers	1	4.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Site Preparation	Graders	1	4.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	4.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Grading	Graders	1	4.00	174	0.41

Grading	Rubber Tired Dozers	2	4.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Paving	Concrete/Industrial Saws	2	4.00	9	0.56
Paving	Pavers	1	4.00	125	0.42
Paving	Paving Equipment	1	4.00	130	0.36
Paving	Rollers	1	4.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Demolition	Air Compressors	1	4.00	78	0.48
Demolition	Crawler Tractors	2	4.00	208	0.43
Demolition	Excavators	1	4.00	162	0.38
Demolition	Forklifts	1	4.00	89	0.20
Demolition	Generator Sets	2	4.00	84	0.74
Demolition	Pressure Washers	2	4.00	13	0.30
Demolition	Skid Steer Loaders	2	4.00	64	0.37
Demolition	Sweepers/Scrubbers	2	4.00	64	0.46
Grading	Concrete/Industrial Saws	2	4.00	81	0.73
Grading	Crawler Tractors	2	4.00	208	0.43
Grading	Excavators	2	4.00	162	0.38
Grading	Air Compressors	2	4.00	78	0.48
Grading	Plate Compactors	2	4.00	8	0.43
Grading	Welders	2	4.00	46	0.45
Grading	Other Construction Equipment	2	4.00	171	0.42
Grading	Pumps	2	4.00	84	0.74
Grading	Pressure Washers	2	4.00	13	0.30
Grading	Rough Terrain Forklifts	2	4.00	100	0.40
Grading	Aerial Lifts	2	4.00	62	0.31
Grading	Cranes	1	4.00	226	0.29
Grading			0.00		

Paving	Crawler Tractors	1	4.00	208	0.43
Paving	Plate Compactors	1	4.00	8	0.43
Paving	Skid Steer Loaders	1	4.00	64	0.37
Paving	Sweepers/Scrubbers	1	4.00	64	0.46

### 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
Demolition	18	45.00	0.00	1.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	28	70.00	0.00	55.00	11.00	5.40	30.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

### 3.2 Demolition - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.2200e-003	0.0000	2.2200e-003	3.4000e-004	0.0000	3.4000e-004			0.0000				0.0000
Off-Road	3.3377	32.7066	24.0305	0.0386		1.8357	1.8357		1.7405	1.7405		3,778.7676	3,778.7676	0.8402			3,796.4117
<b>Total</b>	<b>3.3377</b>	<b>32.7066</b>	<b>24.0305</b>	<b>0.0386</b>	<b>2.2200e-003</b>	<b>1.8357</b>	<b>1.8379</b>	<b>3.4000e-004</b>	<b>1.7405</b>	<b>1.7409</b>		<b>3,778.7676</b>	<b>3,778.7676</b>	<b>0.8402</b>			<b>3,796.4117</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	lb/day										lb/day						
Hauling	1.5000e-004	1.8100e-003	2.0900e-003	1.0000e-005	1.8000e-004	5.0000e-005	2.2000e-004	5.0000e-005	4.0000e-005	9.0000e-005		0.6821	0.6821	0.0000			0.6821
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1925	0.2099	2.3691	4.3900e-003	0.3765	2.3500e-003	0.3789	0.0999	2.1800e-003	0.1020		328.9893	328.9893	0.0188			329.3838
<b>Total</b>	<b>0.1926</b>	<b>0.2117</b>	<b>2.3712</b>	<b>4.4000e-003</b>	<b>0.3767</b>	<b>2.4000e-003</b>	<b>0.3791</b>	<b>0.0999</b>	<b>2.2200e-003</b>	<b>0.1021</b>		<b>329.6713</b>	<b>329.6713</b>	<b>0.0188</b>			<b>330.0660</b>

**3.2 Demolition - 2018****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7000e-004	0.0000	8.7000e-004	1.3000e-004	0.0000	1.3000e-004			0.0000			0.0000
Off-Road	3.3377	27.8006	24.0305	0.0386		1.8357	1.8357		1.7405	1.7405	0.0000	3,778.7676	3,778.7676	0.8402		3,796.4117
<b>Total</b>	<b>3.3377</b>	<b>27.8006</b>	<b>24.0305</b>	<b>0.0386</b>	<b>8.7000e-004</b>	<b>1.8357</b>	<b>1.8366</b>	<b>1.3000e-004</b>	<b>1.7405</b>	<b>1.7406</b>	<b>0.0000</b>	<b>3,778.7676</b>	<b>3,778.7676</b>	<b>0.8402</b>		<b>3,796.4117</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	lb/day										lb/day					
Hauling	1.5000e-004	1.8100e-003	2.0900e-003	1.0000e-005	1.8000e-004	5.0000e-005	2.2000e-004	5.0000e-005	4.0000e-005	9.0000e-005		0.6821	0.6821	0.0000		0.6821
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1925	0.2099	2.3691	4.3900e-003	0.3765	2.3500e-003	0.3789	0.0999	2.1800e-003	0.1020		328.9893	328.9893	0.0188		329.3838
<b>Total</b>	<b>0.1926</b>	<b>0.2117</b>	<b>2.3712</b>	<b>4.4000e-003</b>	<b>0.3767</b>	<b>2.4000e-003</b>	<b>0.3791</b>	<b>0.0999</b>	<b>2.2200e-003</b>	<b>0.1021</b>		<b>329.6713</b>	<b>329.6713</b>	<b>0.0188</b>		<b>330.0660</b>

### 3.3 Site Preparation - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					3.0110	0.0000	3.0110	1.6551	0.0000	1.6551			0.0000				0.0000
Off-Road	1.0871	11.3182	7.9834	9.1100e-003		0.5968	0.5968		0.5490	0.5490		917.4047	917.4047	0.2856			923.4023
<b>Total</b>	<b>1.0871</b>	<b>11.3182</b>	<b>7.9834</b>	<b>9.1100e-003</b>	<b>3.0110</b>	<b>0.5968</b>	<b>3.6078</b>	<b>1.6551</b>	<b>0.5490</b>	<b>2.2041</b>		<b>917.4047</b>	<b>917.4047</b>	<b>0.2856</b>			<b>923.4023</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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0342	0.0373	0.4212	7.8000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		58.4870	58.4870	3.3400e-003			58.5571
<b>Total</b>	<b>0.0342</b>	<b>0.0373</b>	<b>0.4212</b>	<b>7.8000e-004</b>	<b>0.0669</b>	<b>4.2000e-004</b>	<b>0.0674</b>	<b>0.0178</b>	<b>3.9000e-004</b>	<b>0.0181</b>		<b>58.4870</b>	<b>58.4870</b>	<b>3.3400e-003</b>			<b>58.5571</b>

### 3.3 Site Preparation - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1743	0.0000	1.1743	0.6455	0.0000	0.6455			0.0000			0.0000
Off-Road	1.0871	9.6205	7.9834	9.1100e-003		0.5968	0.5968		0.5490	0.5490	0.0000	917.4047	917.4047	0.2856		923.4023
<b>Total</b>	<b>1.0871</b>	<b>9.6205</b>	<b>7.9834</b>	<b>9.1100e-003</b>	<b>1.1743</b>	<b>0.5968</b>	<b>1.7711</b>	<b>0.6455</b>	<b>0.5490</b>	<b>1.1945</b>	<b>0.0000</b>	<b>917.4047</b>	<b>917.4047</b>	<b>0.2856</b>		<b>923.4023</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0342	0.0373	0.4212	7.8000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		58.4870	58.4870	3.3400e-003		58.5571
<b>Total</b>	<b>0.0342</b>	<b>0.0373</b>	<b>0.4212</b>	<b>7.8000e-004</b>	<b>0.0669</b>	<b>4.2000e-004</b>	<b>0.0674</b>	<b>0.0178</b>	<b>3.9000e-004</b>	<b>0.0181</b>		<b>58.4870</b>	<b>58.4870</b>	<b>3.3400e-003</b>		<b>58.5571</b>

### 3.4 Grading - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.0645	0.0000	6.0645	3.3148	0.0000	3.3148			0.0000				0.0000
Off-Road	5.6831	54.9992	40.6266	0.0625		2.8856	2.8856		2.7255	2.7255		6,109.7178	6,109.7178	1.4955			6,141.1236
<b>Total</b>	<b>5.6831</b>	<b>54.9992</b>	<b>40.6266</b>	<b>0.0625</b>	<b>6.0645</b>	<b>2.8856</b>	<b>8.9501</b>	<b>3.3148</b>	<b>2.7255</b>	<b>6.0403</b>		<b>6,109.7178</b>	<b>6,109.7178</b>	<b>1.4955</b>			<b>6,141.1236</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	lb/day										lb/day						
Hauling	0.0105	0.1436	0.1341	5.7000e-004	0.0214	3.9400e-003	0.0254	5.6700e-003	3.6200e-003	9.2900e-003		55.7913	55.7913	3.0000e-004			55.7975
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.2994	0.3265	3.6853	6.8300e-003	0.5857	3.6600e-003	0.5893	0.1554	3.3900e-003	0.1587		511.7611	511.7611	0.0292			512.3748
<b>Total</b>	<b>0.3098</b>	<b>0.4701</b>	<b>3.8195</b>	<b>7.4000e-003</b>	<b>0.6071</b>	<b>7.6000e-003</b>	<b>0.6147</b>	<b>0.1610</b>	<b>7.0100e-003</b>	<b>0.1680</b>		<b>567.5524</b>	<b>567.5524</b>	<b>0.0295</b>			<b>568.1724</b>



### 3.4 Grading - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3652	0.0000	2.3652	1.2928	0.0000	1.2928			0.0000			0.0000
Off-Road	5.6831	46.7493	40.6266	0.0625		2.8856	2.8856		2.7255	2.7255	0.0000	6,109.7178	6,109.7178	1.4955		6,141.1236
<b>Total</b>	<b>5.6831</b>	<b>46.7493</b>	<b>40.6266</b>	<b>0.0625</b>	<b>2.3652</b>	<b>2.8856</b>	<b>5.2508</b>	<b>1.2928</b>	<b>2.7255</b>	<b>4.0182</b>	<b>0.0000</b>	<b>6,109.7178</b>	<b>6,109.7178</b>	<b>1.4955</b>		<b>6,141.1236</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	lb/day										lb/day					
Hauling	0.0105	0.1436	0.1341	5.7000e-004	0.0214	3.9400e-003	0.0254	5.6700e-003	3.6200e-003	9.2900e-003		55.7913	55.7913	3.0000e-004		55.7975
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2994	0.3265	3.6853	6.8300e-003	0.5857	3.6600e-003	0.5893	0.1554	3.3900e-003	0.1587		511.7611	511.7611	0.0292		512.3748
<b>Total</b>	<b>0.3098</b>	<b>0.4701</b>	<b>3.8195</b>	<b>7.4000e-003</b>	<b>0.6071</b>	<b>7.6000e-003</b>	<b>0.6147</b>	<b>0.1610</b>	<b>7.0100e-003</b>	<b>0.1680</b>		<b>567.5524</b>	<b>567.5524</b>	<b>0.0295</b>		<b>568.1724</b>

### 3.4 Grading - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.0645	0.0000	6.0645	3.3148	0.0000	3.3148			0.0000				0.0000
Off-Road	5.2134	50.8182	39.7961	0.0625		2.5840	2.5840		2.4384	2.4384		6,041.4002	6,041.4002	1.4765			6,072.4076
<b>Total</b>	<b>5.2134</b>	<b>50.8182</b>	<b>39.7961</b>	<b>0.0625</b>	<b>6.0645</b>	<b>2.5840</b>	<b>8.6485</b>	<b>3.3148</b>	<b>2.4384</b>	<b>5.7532</b>		<b>6,041.4002</b>	<b>6,041.4002</b>	<b>1.4765</b>			<b>6,072.4076</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	lb/day										lb/day						
Hauling	0.0100	0.1321	0.1302	5.7000e-004	0.0315	3.8400e-003	0.0353	8.1500e-003	3.5300e-003	0.0117		54.8481	54.8481	2.9000e-004			54.8543
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.2747	0.3017	3.4073	6.8200e-003	0.5857	3.6600e-003	0.5893	0.1554	3.4000e-003	0.1587		492.5839	492.5839	0.0276			493.1640
<b>Total</b>	<b>0.2848</b>	<b>0.4338</b>	<b>3.5376</b>	<b>7.3900e-003</b>	<b>0.6172</b>	<b>7.5000e-003</b>	<b>0.6247</b>	<b>0.1635</b>	<b>6.9300e-003</b>	<b>0.1704</b>		<b>547.4320</b>	<b>547.4320</b>	<b>0.0279</b>			<b>548.0183</b>

### 3.4 Grading - 2019

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3652	0.0000	2.3652	1.2928	0.0000	1.2928			0.0000			0.0000
Off-Road	5.2134	43.1955	39.7961	0.0625		2.5840	2.5840		2.4384	2.4384	0.0000	6,041.400 2	6,041.400 2	1.4765		6,072.407 6
<b>Total</b>	<b>5.2134</b>	<b>43.1955</b>	<b>39.7961</b>	<b>0.0625</b>	<b>2.3652</b>	<b>2.5840</b>	<b>4.9492</b>	<b>1.2928</b>	<b>2.4384</b>	<b>3.7312</b>	<b>0.0000</b>	<b>6,041.400 2</b>	<b>6,041.400 2</b>	<b>1.4765</b>		<b>6,072.407 6</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	lb/day										lb/day					
Hauling	0.0100	0.1321	0.1302	5.7000e-004	0.0315	3.8400e-003	0.0353	8.1500e-003	3.5300e-003	0.0117		54.8481	54.8481	2.9000e-004		54.8543
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2747	0.3017	3.4073	6.8200e-003	0.5857	3.6600e-003	0.5893	0.1554	3.4000e-003	0.1587		492.5839	492.5839	0.0276		493.1640
<b>Total</b>	<b>0.2848</b>	<b>0.4338</b>	<b>3.5376</b>	<b>7.3900e-003</b>	<b>0.6172</b>	<b>7.5000e-003</b>	<b>0.6247</b>	<b>0.1635</b>	<b>6.9300e-003</b>	<b>0.1704</b>		<b>547.4320</b>	<b>547.4320</b>	<b>0.0279</b>		<b>548.0183</b>

### 3.5 Paving - 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	0.9743	10.7184	7.7804	0.0135		0.5576	0.5576		0.5134	0.5134		1,328.4424	1,328.4424	0.4166		1,337.1919
Paving	0.1305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1048</b>	<b>10.7184</b>	<b>7.7804</b>	<b>0.0135</b>		<b>0.5576</b>	<b>0.5576</b>		<b>0.5134</b>	<b>0.5134</b>		<b>1,328.4424</b>	<b>1,328.4424</b>	<b>0.4166</b>		<b>1,337.1919</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0981	0.1078	1.2169	2.4400e-003	0.2092	1.3100e-003	0.2105	0.0555	1.2100e-003	0.0567		175.9228	175.9228	9.8700e-003		176.1300
<b>Total</b>	<b>0.0981</b>	<b>0.1078</b>	<b>1.2169</b>	<b>2.4400e-003</b>	<b>0.2092</b>	<b>1.3100e-003</b>	<b>0.2105</b>	<b>0.0555</b>	<b>1.2100e-003</b>	<b>0.0567</b>		<b>175.9228</b>	<b>175.9228</b>	<b>9.8700e-003</b>		<b>176.1300</b>

### 3.5 Paving - 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	0.9743	9.1106	7.7804	0.0135		0.5576	0.5576		0.5134	0.5134	0.0000	1,328.4424	1,328.4424	0.4166		1,337.1919
Paving	0.1305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1048</b>	<b>9.1106</b>	<b>7.7804</b>	<b>0.0135</b>		<b>0.5576</b>	<b>0.5576</b>		<b>0.5134</b>	<b>0.5134</b>	<b>0.0000</b>	<b>1,328.4424</b>	<b>1,328.4424</b>	<b>0.4166</b>		<b>1,337.1919</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0981	0.1078	1.2169	2.4400e-003	0.2092	1.3100e-003	0.2105	0.0555	1.2100e-003	0.0567		175.9228	175.9228	9.8700e-003		176.1300
<b>Total</b>	<b>0.0981</b>	<b>0.1078</b>	<b>1.2169</b>	<b>2.4400e-003</b>	<b>0.2092</b>	<b>1.3100e-003</b>	<b>0.2105</b>	<b>0.0555</b>	<b>1.2100e-003</b>	<b>0.0567</b>		<b>175.9228</b>	<b>175.9228</b>	<b>9.8700e-003</b>		<b>176.1300</b>

### 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

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

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

### 4.3 Trip Type Information

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
General Light Industry	12.50	4.20	5.40	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.471073	0.065210	0.167869	0.157103	0.039378	0.006346	0.011728	0.072116	0.001386	0.001196	0.003702	0.000530	0.002362

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

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

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

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

### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

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

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8605	3.0000e-005	3.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7800e-003	6.7800e-003	2.0000e-005		7.1700e-003
Unmitigated	0.8605	3.0000e-005	3.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7800e-003	6.7800e-003	2.0000e-005		7.1700e-003



### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1968					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7800e-003	6.7800e-003	2.0000e-005		7.1700e-003
<b>Total</b>	<b>0.8605</b>	<b>3.0000e-005</b>	<b>3.1900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>6.7800e-003</b>	<b>6.7800e-003</b>	<b>2.0000e-005</b>		<b>7.1700e-003</b>

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1968					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7800e-003	6.7800e-003	2.0000e-005		7.1700e-003
<b>Total</b>	<b>0.8605</b>	<b>3.0000e-005</b>	<b>3.1900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>6.7800e-003</b>	<b>6.7800e-003</b>	<b>2.0000e-005</b>		<b>7.1700e-003</b>

### 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
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Vegetation**

---

**CWA CR6 Project: Option 1A and 2 Well Sites**  
**Salton Sea Air Basin, Winter**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	30.00	1000sqft	4.98	30,000.00	0
General Light Industry	1.00	1000sqft	0.02	1,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	20
<b>Climate Zone</b>	15			<b>Operational Year</b>	2020
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MWhr)</b>	1270.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - The General Light Industry land use is provided for electricity demand analysis purposes. No new structure will be built.

Construction Phase - Assumes a 2 year buildout for well site upgrades. Approx. early 2018 to late 2019.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent. Assumes equipment needed for well site upgrades in addition to grading equipment.

Off-road Equipment - Equipment list provided by project proponent.

Grading - Assumes 555 CY of AB Base.

Demolition -

Trips and VMT - Assumes 30 miles, one way, for hauling trips.

On-road Fugitive Dust - All roads in project area are paved.

Architectural Coating -

Vehicle Trips - No new trips will be generated.

Road Dust - All roads are paved.

Landscape Equipment - No landscaping is proposed.

Energy Use - Assumes 1,080,000kWh per year for all well sites.

Water And Wastewater - No new water use.

Solid Waste - No solid waste generated.

Construction Off-road Equipment Mitigation - Apply standard dust control measures and equipment to use oxidation catalysts with 15% reduction.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00



tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	8.00	100.00
tblConstructionPhase	NumDays	18.00	100.00
tblConstructionPhase	NumDays	5.00	100.00
tblEnergyUse	LightingElect	3.36	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.69	1,080.00
tblEnergyUse	T24NG	16.16	0.00
tblGrading	AcresOfGrading	75.00	4.00
tblGrading	AcresOfGrading	25.00	0.00
tblGrading	MaterialImported	0.00	555.00
tblLandUse	LotAcreage	0.69	4.98
tblOffRoadEquipment	HorsePower	81.00	9.00
tblOffRoadEquipment	LoadFactor	0.73	0.56
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20

tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.46	0.46
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.46	0.46
tblOffRoadEquipment	OffRoadEquipmentType	Cement and Mortar Mixers	Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pressure Washers
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Sweepers/Scrubbers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Pumps





tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblRoadDust	RoadPercentPave	50	100
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	6.97	0.00

## 2.0 Emissions Summary

---



## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8605	3.0000e-005	3.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7800e-003	6.7800e-003	2.0000e-005		7.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.8605</b>	<b>3.0000e-005</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>6.7800e-003</b>	<b>6.7800e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>7.1700e-003</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8605	3.0000e-005	3.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7800e-003	6.7800e-003	2.0000e-005		7.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.8605</b>	<b>3.0000e-005</b>	<b>3.1900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>6.7800e-003</b>	<b>6.7800e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>7.1700e-003</b>

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	5/18/2018	5	100	
2	Site Preparation	Site Preparation	5/19/2018	10/5/2018	5	100	
3	Grading	Grading	10/6/2018	2/22/2019	5	100	
4	Paving	Paving	2/23/2019	7/12/2019	5	100	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

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
Demolition	Concrete/Industrial Saws	2	4.00	81	0.73
Demolition	Rubber Tired Dozers	1	4.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Site Preparation	Graders	1	4.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	4.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Grading	Graders	1	4.00	174	0.41

Grading	Rubber Tired Dozers	2	4.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Paving	Concrete/Industrial Saws	2	4.00	9	0.56
Paving	Pavers	1	4.00	125	0.42
Paving	Paving Equipment	1	4.00	130	0.36
Paving	Rollers	1	4.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Demolition	Air Compressors	1	4.00	78	0.48
Demolition	Crawler Tractors	2	4.00	208	0.43
Demolition	Excavators	1	4.00	162	0.38
Demolition	Forklifts	1	4.00	89	0.20
Demolition	Generator Sets	2	4.00	84	0.74
Demolition	Pressure Washers	2	4.00	13	0.30
Demolition	Skid Steer Loaders	2	4.00	64	0.37
Demolition	Sweepers/Scrubbers	2	4.00	64	0.46
Grading	Concrete/Industrial Saws	2	4.00	81	0.73
Grading	Crawler Tractors	2	4.00	208	0.43
Grading	Excavators	2	4.00	162	0.38
Grading	Air Compressors	2	4.00	78	0.48
Grading	Plate Compactors	2	4.00	8	0.43
Grading	Welders	2	4.00	46	0.45
Grading	Other Construction Equipment	2	4.00	171	0.42
Grading	Pumps	2	4.00	84	0.74
Grading	Pressure Washers	2	4.00	13	0.30
Grading	Rough Terrain Forklifts	2	4.00	100	0.40
Grading	Aerial Lifts	2	4.00	62	0.31
Grading	Cranes	1	4.00	226	0.29
Grading			0.00		

Paving	Crawler Tractors	1	4.00	208	0.43
Paving	Plate Compactors	1	4.00	8	0.43
Paving	Skid Steer Loaders	1	4.00	64	0.37
Paving	Sweepers/Scrubbers	1	4.00	64	0.46

**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
Demolition	18	45.00	0.00	1.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	28	70.00	0.00	55.00	11.00	5.40	30.00	LD_Mix	HDT_Mix	HHDT
Paving	10	25.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Oxidation Catalyst for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

**3.2 Demolition - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2200e-003	0.0000	2.2200e-003	3.4000e-004	0.0000	3.4000e-004			0.0000			0.0000
Off-Road	3.3377	32.7066	24.0305	0.0386		1.8357	1.8357		1.7405	1.7405		3,778.7676	3,778.7676	0.8402		3,796.4117
<b>Total</b>	<b>3.3377</b>	<b>32.7066</b>	<b>24.0305</b>	<b>0.0386</b>	<b>2.2200e-003</b>	<b>1.8357</b>	<b>1.8379</b>	<b>3.4000e-004</b>	<b>1.7405</b>	<b>1.7409</b>		<b>3,778.7676</b>	<b>3,778.7676</b>	<b>0.8402</b>		<b>3,796.4117</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	lb/day										lb/day					
Hauling	1.7000e-004	1.9500e-003	2.5500e-003	1.0000e-005	1.8000e-004	5.0000e-005	2.2000e-004	5.0000e-005	4.0000e-005	9.0000e-005		0.6804	0.6804	0.0000		0.6804
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1432	0.2324	1.9510	4.0600e-003	0.3765	2.3500e-003	0.3789	0.0999	2.1800e-003	0.1020		305.0667	305.0667	0.0188		305.4613
<b>Total</b>	<b>0.1433</b>	<b>0.2343</b>	<b>1.9536</b>	<b>4.0700e-003</b>	<b>0.3767</b>	<b>2.4000e-003</b>	<b>0.3791</b>	<b>0.0999</b>	<b>2.2200e-003</b>	<b>0.1021</b>		<b>305.7470</b>	<b>305.7470</b>	<b>0.0188</b>		<b>306.1417</b>

### 3.2 Demolition - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					8.7000e-004	0.0000	8.7000e-004	1.3000e-004	0.0000	1.3000e-004			0.0000				0.0000
Off-Road	3.3377	27.8006	24.0305	0.0386		1.8357	1.8357		1.7405	1.7405	0.0000	3,778.7676	3,778.7676	0.8402			3,796.4117
<b>Total</b>	<b>3.3377</b>	<b>27.8006</b>	<b>24.0305</b>	<b>0.0386</b>	<b>8.7000e-004</b>	<b>1.8357</b>	<b>1.8366</b>	<b>1.3000e-004</b>	<b>1.7405</b>	<b>1.7406</b>	<b>0.0000</b>	<b>3,778.7676</b>	<b>3,778.7676</b>	<b>0.8402</b>			<b>3,796.4117</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	lb/day										lb/day						
Hauling	1.7000e-004	1.9500e-003	2.5500e-003	1.0000e-005	1.8000e-004	5.0000e-005	2.2000e-004	5.0000e-005	4.0000e-005	9.0000e-005		0.6804	0.6804	0.0000			0.6804
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1432	0.2324	1.9510	4.0600e-003	0.3765	2.3500e-003	0.3789	0.0999	2.1800e-003	0.1020		305.0667	305.0667	0.0188			305.4613
<b>Total</b>	<b>0.1433</b>	<b>0.2343</b>	<b>1.9536</b>	<b>4.0700e-003</b>	<b>0.3767</b>	<b>2.4000e-003</b>	<b>0.3791</b>	<b>0.0999</b>	<b>2.2200e-003</b>	<b>0.1021</b>		<b>305.7470</b>	<b>305.7470</b>	<b>0.0188</b>			<b>306.1417</b>



**3.3 Site Preparation - 2018****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0110	0.0000	3.0110	1.6551	0.0000	1.6551			0.0000			0.0000
Off-Road	1.0871	11.3182	7.9834	9.1100e-003		0.5968	0.5968		0.5490	0.5490		917.4047	917.4047	0.2856		923.4023
<b>Total</b>	<b>1.0871</b>	<b>11.3182</b>	<b>7.9834</b>	<b>9.1100e-003</b>	<b>3.0110</b>	<b>0.5968</b>	<b>3.6078</b>	<b>1.6551</b>	<b>0.5490</b>	<b>2.2041</b>		<b>917.4047</b>	<b>917.4047</b>	<b>0.2856</b>		<b>923.4023</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0255	0.0413	0.3469	7.2000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		54.2341	54.2341	3.3400e-003		54.3042
<b>Total</b>	<b>0.0255</b>	<b>0.0413</b>	<b>0.3469</b>	<b>7.2000e-004</b>	<b>0.0669</b>	<b>4.2000e-004</b>	<b>0.0674</b>	<b>0.0178</b>	<b>3.9000e-004</b>	<b>0.0181</b>		<b>54.2341</b>	<b>54.2341</b>	<b>3.3400e-003</b>		<b>54.3042</b>

### 3.3 Site Preparation - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1743	0.0000	1.1743	0.6455	0.0000	0.6455			0.0000			0.0000
Off-Road	1.0871	9.6205	7.9834	9.1100e-003		0.5968	0.5968		0.5490	0.5490	0.0000	917.4047	917.4047	0.2856		923.4023
<b>Total</b>	<b>1.0871</b>	<b>9.6205</b>	<b>7.9834</b>	<b>9.1100e-003</b>	<b>1.1743</b>	<b>0.5968</b>	<b>1.7711</b>	<b>0.6455</b>	<b>0.5490</b>	<b>1.1945</b>	<b>0.0000</b>	<b>917.4047</b>	<b>917.4047</b>	<b>0.2856</b>		<b>923.4023</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0255	0.0413	0.3469	7.2000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		54.2341	54.2341	3.3400e-003		54.3042
<b>Total</b>	<b>0.0255</b>	<b>0.0413</b>	<b>0.3469</b>	<b>7.2000e-004</b>	<b>0.0669</b>	<b>4.2000e-004</b>	<b>0.0674</b>	<b>0.0178</b>	<b>3.9000e-004</b>	<b>0.0181</b>		<b>54.2341</b>	<b>54.2341</b>	<b>3.3400e-003</b>		<b>54.3042</b>

### 3.4 Grading - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.0645	0.0000	6.0645	3.3148	0.0000	3.3148			0.0000				0.0000
Off-Road	5.6831	54.9992	40.6266	0.0625		2.8856	2.8856		2.7255	2.7255		6,109.7178	6,109.7178	1.4955			6,141.1236
<b>Total</b>	<b>5.6831</b>	<b>54.9992</b>	<b>40.6266</b>	<b>0.0625</b>	<b>6.0645</b>	<b>2.8856</b>	<b>8.9501</b>	<b>3.3148</b>	<b>2.7255</b>	<b>6.0403</b>		<b>6,109.7178</b>	<b>6,109.7178</b>	<b>1.4955</b>			<b>6,141.1236</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	lb/day										lb/day						
Hauling	0.0112	0.1555	0.1589	5.7000e-004	0.0214	3.9400e-003	0.0254	5.6700e-003	3.6300e-003	9.3000e-003		55.6972	55.6972	3.0000e-004			55.7035
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.2227	0.3615	3.0349	6.3200e-003	0.5857	3.6600e-003	0.5893	0.1554	3.3900e-003	0.1587		474.5482	474.5482	0.0292			475.1620
<b>Total</b>	<b>0.2339</b>	<b>0.5169</b>	<b>3.1938</b>	<b>6.8900e-003</b>	<b>0.6071</b>	<b>7.6000e-003</b>	<b>0.6147</b>	<b>0.1610</b>	<b>7.0200e-003</b>	<b>0.1680</b>		<b>530.2454</b>	<b>530.2454</b>	<b>0.0295</b>			<b>530.8654</b>

### 3.4 Grading - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3652	0.0000	2.3652	1.2928	0.0000	1.2928			0.0000			0.0000
Off-Road	5.6831	46.7493	40.6266	0.0625		2.8856	2.8856		2.7255	2.7255	0.0000	6,109.7178	6,109.7178	1.4955		6,141.1236
<b>Total</b>	<b>5.6831</b>	<b>46.7493</b>	<b>40.6266</b>	<b>0.0625</b>	<b>2.3652</b>	<b>2.8856</b>	<b>5.2508</b>	<b>1.2928</b>	<b>2.7255</b>	<b>4.0182</b>	<b>0.0000</b>	<b>6,109.7178</b>	<b>6,109.7178</b>	<b>1.4955</b>		<b>6,141.1236</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	lb/day										lb/day					
Hauling	0.0112	0.1555	0.1589	5.7000e-004	0.0214	3.9400e-003	0.0254	5.6700e-003	3.6300e-003	9.3000e-003		55.6972	55.6972	3.0000e-004		55.7035
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2227	0.3615	3.0349	6.3200e-003	0.5857	3.6600e-003	0.5893	0.1554	3.3900e-003	0.1587		474.5482	474.5482	0.0292		475.1620
<b>Total</b>	<b>0.2339</b>	<b>0.5169</b>	<b>3.1938</b>	<b>6.8900e-003</b>	<b>0.6071</b>	<b>7.6000e-003</b>	<b>0.6147</b>	<b>0.1610</b>	<b>7.0200e-003</b>	<b>0.1680</b>		<b>530.2454</b>	<b>530.2454</b>	<b>0.0295</b>		<b>530.8654</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0645	0.0000	6.0645	3.3148	0.0000	3.3148			0.0000			0.0000
Off-Road	5.2134	50.8182	39.7961	0.0625		2.5840	2.5840		2.4384	2.4384		6,041.400 2	6,041.400 2	1.4765		6,072.407 6
<b>Total</b>	<b>5.2134</b>	<b>50.8182</b>	<b>39.7961</b>	<b>0.0625</b>	<b>6.0645</b>	<b>2.5840</b>	<b>8.6485</b>	<b>3.3148</b>	<b>2.4384</b>	<b>5.7532</b>		<b>6,041.400 2</b>	<b>6,041.400 2</b>	<b>1.4765</b>		<b>6,072.407 6</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	lb/day										lb/day					
Hauling	0.0107	0.1430	0.1553	5.7000e-004	0.0315	3.8400e-003	0.0353	8.1500e-003	3.5300e-003	0.0117		54.7555	54.7555	3.0000e-004		54.7618
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2042	0.3336	2.8009	6.3100e-003	0.5857	3.6600e-003	0.5893	0.1554	3.4000e-003	0.1587		456.7006	456.7006	0.0276		457.2807
<b>Total</b>	<b>0.2149</b>	<b>0.4766</b>	<b>2.9562</b>	<b>6.8800e-003</b>	<b>0.6172</b>	<b>7.5000e-003</b>	<b>0.6247</b>	<b>0.1635</b>	<b>6.9300e-003</b>	<b>0.1704</b>		<b>511.4561</b>	<b>511.4561</b>	<b>0.0279</b>		<b>512.0425</b>

### 3.4 Grading - 2019

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3652	0.0000	2.3652	1.2928	0.0000	1.2928			0.0000			0.0000
Off-Road	5.2134	43.1955	39.7961	0.0625		2.5840	2.5840		2.4384	2.4384	0.0000	6,041.4002	6,041.4002	1.4765		6,072.4076
<b>Total</b>	<b>5.2134</b>	<b>43.1955</b>	<b>39.7961</b>	<b>0.0625</b>	<b>2.3652</b>	<b>2.5840</b>	<b>4.9492</b>	<b>1.2928</b>	<b>2.4384</b>	<b>3.7312</b>	<b>0.0000</b>	<b>6,041.4002</b>	<b>6,041.4002</b>	<b>1.4765</b>		<b>6,072.4076</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	lb/day										lb/day					
Hauling	0.0107	0.1430	0.1553	5.7000e-004	0.0315	3.8400e-003	0.0353	8.1500e-003	3.5300e-003	0.0117		54.7555	54.7555	3.0000e-004		54.7618
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2042	0.3336	2.8009	6.3100e-003	0.5857	3.6600e-003	0.5893	0.1554	3.4000e-003	0.1587		456.7006	456.7006	0.0276		457.2807
<b>Total</b>	<b>0.2149</b>	<b>0.4766</b>	<b>2.9562</b>	<b>6.8800e-003</b>	<b>0.6172</b>	<b>7.5000e-003</b>	<b>0.6247</b>	<b>0.1635</b>	<b>6.9300e-003</b>	<b>0.1704</b>		<b>511.4561</b>	<b>511.4561</b>	<b>0.0279</b>		<b>512.0425</b>

### 3.5 Paving - 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	0.9743	10.7184	7.7804	0.0135		0.5576	0.5576		0.5134	0.5134		1,328.4424	1,328.4424	0.4166		1,337.1919
Paving	0.1305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1048</b>	<b>10.7184</b>	<b>7.7804</b>	<b>0.0135</b>		<b>0.5576</b>	<b>0.5576</b>		<b>0.5134</b>	<b>0.5134</b>		<b>1,328.4424</b>	<b>1,328.4424</b>	<b>0.4166</b>		<b>1,337.1919</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0729	0.1192	1.0003	2.2500e-003	0.2092	1.3100e-003	0.2105	0.0555	1.2100e-003	0.0567		163.1074	163.1074	9.8700e-003		163.3145
<b>Total</b>	<b>0.0729</b>	<b>0.1192</b>	<b>1.0003</b>	<b>2.2500e-003</b>	<b>0.2092</b>	<b>1.3100e-003</b>	<b>0.2105</b>	<b>0.0555</b>	<b>1.2100e-003</b>	<b>0.0567</b>		<b>163.1074</b>	<b>163.1074</b>	<b>9.8700e-003</b>		<b>163.3145</b>

### 3.5 Paving - 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	0.9743	9.1106	7.7804	0.0135		0.5576	0.5576		0.5134	0.5134	0.0000	1,328.4424	1,328.4424	0.4166		1,337.1919
Paving	0.1305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1048</b>	<b>9.1106</b>	<b>7.7804</b>	<b>0.0135</b>		<b>0.5576</b>	<b>0.5576</b>		<b>0.5134</b>	<b>0.5134</b>	<b>0.0000</b>	<b>1,328.4424</b>	<b>1,328.4424</b>	<b>0.4166</b>		<b>1,337.1919</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0729	0.1192	1.0003	2.2500e-003	0.2092	1.3100e-003	0.2105	0.0555	1.2100e-003	0.0567		163.1074	163.1074	9.8700e-003		163.3145
<b>Total</b>	<b>0.0729</b>	<b>0.1192</b>	<b>1.0003</b>	<b>2.2500e-003</b>	<b>0.2092</b>	<b>1.3100e-003</b>	<b>0.2105</b>	<b>0.0555</b>	<b>1.2100e-003</b>	<b>0.0567</b>		<b>163.1074</b>	<b>163.1074</b>	<b>9.8700e-003</b>		<b>163.3145</b>

### 4.0 Operational Detail - Mobile



### 4.1 Mitigation Measures Mobile

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

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

### 4.3 Trip Type Information

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
General Light Industry	12.50	4.20	5.40	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.471073	0.065210	0.167869	0.157103	0.039378	0.006346	0.011728	0.072116	0.001386	0.001196	0.003702	0.000530	0.002362

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

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

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

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

### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

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

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8605	3.0000e-005	3.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7800e-003	6.7800e-003	2.0000e-005		7.1700e-003
Unmitigated	0.8605	3.0000e-005	3.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7800e-003	6.7800e-003	2.0000e-005		7.1700e-003

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1968					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7800e-003	6.7800e-003	2.0000e-005		7.1700e-003
<b>Total</b>	<b>0.8605</b>	<b>3.0000e-005</b>	<b>3.1900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>6.7800e-003</b>	<b>6.7800e-003</b>	<b>2.0000e-005</b>		<b>7.1700e-003</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1968					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.0000e-004	3.0000e-005	3.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.7800e-003	6.7800e-003	2.0000e-005		7.1700e-003
<b>Total</b>	<b>0.8605</b>	<b>3.0000e-005</b>	<b>3.1900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>6.7800e-003</b>	<b>6.7800e-003</b>	<b>2.0000e-005</b>		<b>7.1700e-003</b>

## 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
----------------	--------	-----------	-----------	-------------	-------------	-----------

## 10.0 Vegetation

---

**CWA CR6 Project - Options 1B and 1C**  
**Salton Sea Air Basin, Annual**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	27.07	1000sqft	8.39	27,072.00	0
Other Asphalt Surfaces	70.00	1000sqft	1.61	70,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	20
<b>Climate Zone</b>	15			<b>Operational Year</b>	2021
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MWhr)</b>	1270.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Assumes 30,000SF and 50,000SF paving for the well sites and RRF site, respectively. A total combined 10 acres assumed for well sitse and RRF.

Construction Phase - Well site construction = 2 years; RRF construction = 3 years; assumes combined total of 3 years for buildout; Early 2018 to late 2020.

Off-road Equipment - Construction list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Grading - Material import = AB base.

Demolition -

Trips and VMT - Assumes 30 miles, one way, for material hauling.

On-road Fugitive Dust - Project is located in urban environment, all roadways are paved.

Architectural Coating - Low VOC Content coatings per SCAQMD Rule 1113.

Vehicle Trips - New trips are minimal, based on traffic numbers in project IS.

Road Dust - All roads will be paved.

Landscape Equipment - No landscaping proposed.

Energy Use - 1,080,000Kwh/year for well sites, 333,000 kWh/year for RRF.

Water And Wastewater - Proposed water treatment, No new water use.

Solid Waste - No solid waste, WWT.

Construction Off-road Equipment Mitigation - Apply standard dust control management and equipment to use oxidation catalysts with 15% reduction equiv.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	125.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	125.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	125.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00





tblConstructionPhase	NumDays	230.00	150.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	20.00	300.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	10.00	50.00
tblEnergyUse	LightingElect	3.36	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.69	52.08
tblEnergyUse	T24NG	16.16	0.00
tblGrading	AcresOfGrading	525.00	10.00
tblGrading	MaterialImported	0.00	1,555.00
tblLandUse	LotAcreage	0.62	8.39
tblOffRoadEquipment	HorsePower	208.00	62.00
tblOffRoadEquipment	HorsePower	78.00	81.00
tblOffRoadEquipment	HorsePower	46.00	255.00
tblOffRoadEquipment	HorsePower	62.00	78.00
tblOffRoadEquipment	HorsePower	199.00	255.00
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.46	0.46
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.48	0.48
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.43	0.31

tblOffRoadEquipment	LoadFactor	0.34	0.34
tblOffRoadEquipment	LoadFactor	0.48	0.73
tblOffRoadEquipment	LoadFactor	0.45	0.40
tblOffRoadEquipment	LoadFactor	0.31	0.48
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pressure Washers
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Sweepers/Scrubbers
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Surfacing Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Welders
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00

tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblProjectCharacteristics	OperationalYear	2014	2021
tblRoadDust	RoadPercentPave	50	100
tblSolidWaste	SolidWasteGenerationRate	33.57	0.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	WorkerTripNumber	53.00	48.00
tblVehicleTrips	ST_TR	1.32	1.20
tblVehicleTrips	SU_TR	0.68	1.20
tblVehicleTrips	WD_TR	6.97	1.20
tblWater	IndoorWaterUseRate	6,259,937.50	0.00

## 2.0 Emissions Summary

---

## 2.1 Overall Construction

### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.4617	4.6180	3.5226	5.0900e-003	0.7256	0.2489	0.9745	0.3843	0.2306	0.6149	0.0000	452.3073	452.3073	0.1198	0.0000	454.8230
2019	0.5485	5.0315	4.3042	7.3200e-003	0.5077	0.2761	0.7838	0.2624	0.2598	0.5222	0.0000	632.9103	632.9103	0.1481	0.0000	636.0212
2020	0.7839	1.9377	1.9111	3.4000e-003	0.0236	0.1012	0.1248	6.2800e-003	0.0964	0.1027	0.0000	286.5086	286.5086	0.0609	0.0000	287.7865
<b>Total</b>	<b>1.7941</b>	<b>11.5872</b>	<b>9.7379</b>	<b>0.0158</b>	<b>1.2568</b>	<b>0.6262</b>	<b>1.8830</b>	<b>0.6529</b>	<b>0.5868</b>	<b>1.2397</b>	<b>0.0000</b>	<b>1,371.7262</b>	<b>1,371.7262</b>	<b>0.3288</b>	<b>0.0000</b>	<b>1,378.6307</b>

### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.4617	4.0119	3.5226	5.0900e-003	0.3089	0.2489	0.5578	0.1568	0.2306	0.3873	0.0000	452.3068	452.3068	0.1198	0.0000	454.8225
2019	0.5485	4.3362	4.3042	7.3200e-003	0.2288	0.2761	0.5049	0.1106	0.2598	0.3704	0.0000	632.9096	632.9096	0.1481	0.0000	636.0205
2020	0.7839	1.6660	1.9111	3.4000e-003	0.0236	0.1012	0.1248	6.2800e-003	0.0964	0.1027	0.0000	286.5083	286.5083	0.0609	0.0000	287.7862
<b>Total</b>	<b>1.7941</b>	<b>10.0141</b>	<b>9.7379</b>	<b>0.0158</b>	<b>0.5613</b>	<b>0.6262</b>	<b>1.1875</b>	<b>0.2736</b>	<b>0.5868</b>	<b>0.8604</b>	<b>0.0000</b>	<b>1,371.7247</b>	<b>1,371.7247</b>	<b>0.3288</b>	<b>0.0000</b>	<b>1,378.6292</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	13.58	0.00	0.00	55.34	0.00	36.94	58.10	0.00	30.60	0.00	0.00	0.00	0.00	0.00	0.00

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4917	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7300e-003	1.7300e-003	0.0000	0.0000	1.8300e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	812.8183	812.8183	0.0186	3.8400e-003	814.3973
Mobile	0.0195	0.0581	0.2480	5.9000e-004	0.0390	1.1600e-003	0.0402	0.0104	1.0600e-003	0.0115	0.0000	41.0317	41.0317	1.5000e-003	0.0000	41.0632
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.5112</b>	<b>0.0581</b>	<b>0.2489</b>	<b>5.9000e-004</b>	<b>0.0390</b>	<b>1.1600e-003</b>	<b>0.0402</b>	<b>0.0104</b>	<b>1.0600e-003</b>	<b>0.0115</b>	<b>0.0000</b>	<b>853.8517</b>	<b>853.8517</b>	<b>0.0201</b>	<b>3.8400e-003</b>	<b>855.4624</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4917	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7300e-003	1.7300e-003	0.0000	0.0000	1.8300e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	812.8183	812.8183	0.0186	3.8400e-003	814.3973
Mobile	0.0195	0.0581	0.2480	5.9000e-004	0.0390	1.1600e-003	0.0402	0.0104	1.0600e-003	0.0115	0.0000	41.0317	41.0317	1.5000e-003	0.0000	41.0632
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.5112</b>	<b>0.0581</b>	<b>0.2489</b>	<b>5.9000e-004</b>	<b>0.0390</b>	<b>1.1600e-003</b>	<b>0.0402</b>	<b>0.0104</b>	<b>1.0600e-003</b>	<b>0.0115</b>	<b>0.0000</b>	<b>853.8517</b>	<b>853.8517</b>	<b>0.0201</b>	<b>3.8400e-003</b>	<b>855.4624</b>

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

## 3.0 Construction Detail

### Construction Phase



Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	3/9/2018	5	50	
2	Site Preparation	Site Preparation	3/10/2018	5/18/2018	5	50	
3	Grading	Grading	5/19/2018	7/12/2019	5	300	
4	Building Construction	Building Construction	7/13/2019	2/7/2020	5	150	
5	Paving	Paving	2/8/2020	6/26/2020	5	100	
6	Architectural Coating	Architectural Coating	6/27/2020	11/13/2020	5	100	

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

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 145,608; Non-Residential Outdoor: 48,536 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	4.00	81	0.73
Demolition	Excavators	1	4.00	162	0.38
Demolition	Welders	1	4.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Grading	Plate Compactors	1	4.00	8	0.43
Grading	Rollers	1	4.00	80	0.38
Grading	Rubber Tired Loaders	1	4.00	199	0.36
Grading	Scrapers	1	4.00	361	0.48
Grading	Skid Steer Loaders	1	4.00	64	0.37
Paving	Plate Compactors	1	4.00	8	0.43
Paving	Surfacing Equipment	1	4.00	253	0.30
Site Preparation	Rubber Tired Dozers	3	4.00	255	0.40

Building Construction	Forklifts	3	8.00	89	0.20
Site Preparation	Tractors/Loaders/Backhoes	4	4.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Crawler Tractors	4	4.00	62	0.31
Grading	Excavators	1	4.00	162	0.38
Grading	Graders	1	4.00	174	0.41
Grading	Rubber Tired Dozers	1	4.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Paving	Concrete/Industrial Saws	1	4.00	81	0.73
Paving	Crawler Tractors	1	4.00	208	0.43
Paving	Forklifts	1	4.00	89	0.20
Paving	Generator Sets	1	4.00	84	0.74
Paving	Graders	1	4.00	174	0.41
Paving	Pavers	1	4.00	125	0.42
Paving	Paving Equipment	1	4.00	130	0.36
Paving	Rollers	1	4.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Paving	Welders	2	4.00	46	0.45
Building Construction	Aerial Lifts	6	4.00	62	0.31
Building Construction	Air Compressors	4	4.00	78	0.48
Building Construction	Bore/Drill Rigs	1	4.00	205	0.50
Building Construction	Cement and Mortar Mixers	2	4.00	9	0.56
Building Construction	Concrete/Industrial Saws	2	4.00	81	0.73
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Crushing/Proc. Equipment	1	4.00	85	0.78
Building Construction	Graders	1	4.00	174	0.41
Building Construction	Other General Industrial Equipment	1	4.00	87	0.34

Building Construction	Plate Compactors	1	4.00	8	0.43
Building Construction	Pressure Washers	1	4.00	13	0.30
Building Construction	Pumps	1	4.00	84	0.74
Building Construction	Rollers	1	4.00	80	0.38
Building Construction	Rough Terrain Forklifts	1	4.00	100	0.40
Building Construction	Rubber Tired Loaders	2	4.00	255	0.40
Building Construction	Skid Steer Loaders	1	4.00	64	0.37
Building Construction	Surfacing Equipment	1	4.00	253	0.30
Demolition	Concrete/Industrial Saws	2	4.00	81	0.73
Building Construction	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Building Construction	Welders	2	4.00	46	0.45
Architectural Coating	Aerial Lifts	3	4.00	78	0.48
Architectural Coating	Air Compressors	2	4.00	78	0.48
Architectural Coating	Forklifts	1	4.00	89	0.20
Architectural Coating	Generator Sets	1	4.00	84	0.74
Architectural Coating	Pressure Washers	1	4.00	13	0.30
Grading	Other General Industrial Equipment	2	4.00	87	0.34
Demolition	Crawler Tractors	2	4.00	208	0.43
Demolition	Forklifts	1	4.00	89	0.20
Demolition	Generator Sets	2	4.00	84	0.74
Demolition	Pressure Washers	2	4.00	13	0.30
Demolition	Rough Terrain Forklifts	1	4.00	100	0.40
Demolition	Skid Steer Loaders	2	4.00	64	0.37
Demolition	Sweepers/Scrubbers	2	4.00	64	0.46

**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
Demolition	21	48.00	0.00	1.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	16	40.00	0.00	194.00	11.00	5.40	30.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	8.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	14	35.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	36	41.00	16.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

### 3.2 Demolition - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-004	0.0000	1.1000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1349	1.3553	1.0078	1.4800e-003		0.0706	0.0706		0.0665	0.0665	0.0000	134.1677	134.1677	0.0305	0.0000	134.8085
<b>Total</b>	<b>0.1349</b>	<b>1.3553</b>	<b>1.0078</b>	<b>1.4800e-003</b>	<b>1.1000e-004</b>	<b>0.0706</b>	<b>0.0707</b>	<b>2.0000e-005</b>	<b>0.0665</b>	<b>0.0665</b>	<b>0.0000</b>	<b>134.1677</b>	<b>134.1677</b>	<b>0.0305</b>	<b>0.0000</b>	<b>134.8085</b>

### 3.2 Demolition - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.0000e-004	1.1000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0309	0.0309	0.0000	0.0000	0.0309
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	4.1400e-003	5.9900e-003	0.0565	1.1000e-004	9.9200e-003	6.0000e-005	9.9800e-003	2.6300e-003	6.0000e-005	2.6900e-003	0.0000	7.8100	7.8100	4.5000e-004	0.0000	7.8196
<b>Total</b>	<b>4.1500e-003</b>	<b>6.0900e-003</b>	<b>0.0566</b>	<b>1.1000e-004</b>	<b>9.9300e-003</b>	<b>6.0000e-005</b>	<b>9.9900e-003</b>	<b>2.6300e-003</b>	<b>6.0000e-005</b>	<b>2.6900e-003</b>	<b>0.0000</b>	<b>7.8409</b>	<b>7.8409</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>7.8505</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					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1349	1.1864	1.0078	1.4800e-003		0.0706	0.0706		0.0665	0.0665	0.0000	134.1676	134.1676	0.0305	0.0000	134.8083
<b>Total</b>	<b>0.1349</b>	<b>1.1864</b>	<b>1.0078</b>	<b>1.4800e-003</b>	<b>4.0000e-005</b>	<b>0.0706</b>	<b>0.0706</b>	<b>1.0000e-005</b>	<b>0.0665</b>	<b>0.0665</b>	<b>0.0000</b>	<b>134.1676</b>	<b>134.1676</b>	<b>0.0305</b>	<b>0.0000</b>	<b>134.8083</b>

### 3.2 Demolition - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	1.0000e-004	1.1000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0309	0.0309	0.0000	0.0000	0.0309
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	4.1400e-003	5.9900e-003	0.0565	1.1000e-004	9.9200e-003	6.0000e-005	9.9800e-003	2.6300e-003	6.0000e-005	2.6900e-003	0.0000	7.8100	7.8100	4.5000e-004	0.0000	7.8196
<b>Total</b>	<b>4.1500e-003</b>	<b>6.0900e-003</b>	<b>0.0566</b>	<b>1.1000e-004</b>	<b>9.9300e-003</b>	<b>6.0000e-005</b>	<b>9.9900e-003</b>	<b>2.6300e-003</b>	<b>6.0000e-005</b>	<b>2.6900e-003</b>	<b>0.0000</b>	<b>7.8409</b>	<b>7.8409</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>7.8505</b>

### 3.3 Site Preparation - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2258	0.0000	0.2258	0.1241	0.0000	0.1241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0537	0.5701	0.4529	4.9000e-004		0.0296	0.0296		0.0272	0.0272	0.0000	44.6763	44.6763	0.0139	0.0000	44.9684
<b>Total</b>	<b>0.0537</b>	<b>0.5701</b>	<b>0.4529</b>	<b>4.9000e-004</b>	<b>0.2258</b>	<b>0.0296</b>	<b>0.2554</b>	<b>0.1241</b>	<b>0.0272</b>	<b>0.1513</b>	<b>0.0000</b>	<b>44.6763</b>	<b>44.6763</b>	<b>0.0139</b>	<b>0.0000</b>	<b>44.9684</b>

### 3.3 Site Preparation - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	2.2500e-003	0.0212	4.0000e-005	3.7200e-003	2.0000e-005	3.7400e-003	9.9000e-004	2.0000e-005	1.0100e-003	0.0000	2.9288	2.9288	1.7000e-004	0.0000	2.9323
<b>Total</b>	<b>1.5500e-003</b>	<b>2.2500e-003</b>	<b>0.0212</b>	<b>4.0000e-005</b>	<b>3.7200e-003</b>	<b>2.0000e-005</b>	<b>3.7400e-003</b>	<b>9.9000e-004</b>	<b>2.0000e-005</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>2.9288</b>	<b>2.9288</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.9323</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					0.0881	0.0000	0.0881	0.0484	0.0000	0.0484	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0537	0.5070	0.4529	4.9000e-004		0.0296	0.0296		0.0272	0.0272	0.0000	44.6762	44.6762	0.0139	0.0000	44.9683
<b>Total</b>	<b>0.0537</b>	<b>0.5070</b>	<b>0.4529</b>	<b>4.9000e-004</b>	<b>0.0881</b>	<b>0.0296</b>	<b>0.1176</b>	<b>0.0484</b>	<b>0.0272</b>	<b>0.0756</b>	<b>0.0000</b>	<b>44.6762</b>	<b>44.6762</b>	<b>0.0139</b>	<b>0.0000</b>	<b>44.9683</b>

### 3.3 Site Preparation - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	2.2500e-003	0.0212	4.0000e-005	3.7200e-003	2.0000e-005	3.7400e-003	9.9000e-004	2.0000e-005	1.0100e-003	0.0000	2.9288	2.9288	1.7000e-004	0.0000	2.9323
<b>Total</b>	<b>1.5500e-003</b>	<b>2.2500e-003</b>	<b>0.0212</b>	<b>4.0000e-005</b>	<b>3.7200e-003</b>	<b>2.0000e-005</b>	<b>3.7400e-003</b>	<b>9.9000e-004</b>	<b>2.0000e-005</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>2.9288</b>	<b>2.9288</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.9323</b>

### 3.4 Grading - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4571	0.0000	0.4571	0.2489	0.0000	0.2489	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2554	2.6537	1.8193	2.6000e-003		0.1481	0.1481		0.1363	0.1363	0.0000	236.9498	236.9498	0.0735	0.0000	238.4934
<b>Total</b>	<b>0.2554</b>	<b>2.6537</b>	<b>1.8193</b>	<b>2.6000e-003</b>	<b>0.4571</b>	<b>0.1481</b>	<b>0.6052</b>	<b>0.2489</b>	<b>0.1363</b>	<b>0.3852</b>	<b>0.0000</b>	<b>236.9498</b>	<b>236.9498</b>	<b>0.0735</b>	<b>0.0000</b>	<b>238.4934</b>



### 3.4 Grading - 2018

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-003	0.0145	0.0133	5.0000e-005	2.2300e-003	3.7000e-004	2.6000e-003	5.9000e-004	3.4000e-004	9.3000e-004	0.0000	4.7871	4.7871	3.0000e-005	0.0000	4.7876
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	0.0111	0.0161	0.1515	3.1000e-004	0.0266	1.7000e-004	0.0268	7.0700e-003	1.6000e-004	7.2200e-003	0.0000	20.9569	20.9569	1.2200e-003	0.0000	20.9825
<b>Total</b>	<b>0.0121</b>	<b>0.0306</b>	<b>0.1648</b>	<b>3.6000e-004</b>	<b>0.0289</b>	<b>5.4000e-004</b>	<b>0.0294</b>	<b>7.6600e-003</b>	<b>5.0000e-004</b>	<b>8.1500e-003</b>	<b>0.0000</b>	<b>25.7439</b>	<b>25.7439</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>25.7701</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					0.1783	0.0000	0.1783	0.0971	0.0000	0.0971	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2554	2.2796	1.8193	2.6000e-003		0.1481	0.1481		0.1363	0.1363	0.0000	236.9495	236.9495	0.0735	0.0000	238.4931
<b>Total</b>	<b>0.2554</b>	<b>2.2796</b>	<b>1.8193</b>	<b>2.6000e-003</b>	<b>0.1783</b>	<b>0.1481</b>	<b>0.3264</b>	<b>0.0971</b>	<b>0.1363</b>	<b>0.2334</b>	<b>0.0000</b>	<b>236.9495</b>	<b>236.9495</b>	<b>0.0735</b>	<b>0.0000</b>	<b>238.4931</b>

### 3.4 Grading - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-003	0.0145	0.0133	5.0000e-005	2.2300e-003	3.7000e-004	2.6000e-003	5.9000e-004	3.4000e-004	9.3000e-004	0.0000	4.7871	4.7871	3.0000e-005	0.0000	4.7876
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	0.0111	0.0161	0.1515	3.1000e-004	0.0266	1.7000e-004	0.0268	7.0700e-003	1.6000e-004	7.2200e-003	0.0000	20.9569	20.9569	1.2200e-003	0.0000	20.9825
<b>Total</b>	<b>0.0121</b>	<b>0.0306</b>	<b>0.1648</b>	<b>3.6000e-004</b>	<b>0.0289</b>	<b>5.4000e-004</b>	<b>0.0294</b>	<b>7.6600e-003</b>	<b>5.0000e-004</b>	<b>8.1500e-003</b>	<b>0.0000</b>	<b>25.7439</b>	<b>25.7439</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>25.7701</b>

### 3.4 Grading - 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					0.4571	0.0000	0.4571	0.2489	0.0000	0.2489	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2040	2.1030	1.5191	2.2400e-003		0.1156	0.1156		0.1064	0.1064	0.0000	201.2735	201.2735	0.0635	0.0000	202.6060
<b>Total</b>	<b>0.2040</b>	<b>2.1030</b>	<b>1.5191</b>	<b>2.2400e-003</b>	<b>0.4571</b>	<b>0.1156</b>	<b>0.5727</b>	<b>0.2489</b>	<b>0.1064</b>	<b>0.3553</b>	<b>0.0000</b>	<b>201.2735</b>	<b>201.2735</b>	<b>0.0635</b>	<b>0.0000</b>	<b>202.6060</b>

### 3.4 Grading - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.3000e-004	0.0115	0.0112	5.0000e-005	2.1900e-003	3.1000e-004	2.5000e-003	5.7000e-004	2.9000e-004	8.6000e-004	0.0000	4.0631	4.0631	2.0000e-005	0.0000	4.0635
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	8.8100e-003	0.0128	0.1210	2.7000e-004	0.0230	1.5000e-004	0.0231	6.1000e-003	1.3000e-004	6.2400e-003	0.0000	17.4139	17.4139	1.0000e-003	0.0000	17.4348
<b>Total</b>	<b>9.6400e-003</b>	<b>0.0244</b>	<b>0.1322</b>	<b>3.2000e-004</b>	<b>0.0252</b>	<b>4.6000e-004</b>	<b>0.0256</b>	<b>6.6700e-003</b>	<b>4.2000e-004</b>	<b>7.1000e-003</b>	<b>0.0000</b>	<b>21.4769</b>	<b>21.4769</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>21.4983</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					0.1783	0.0000	0.1783	0.0971	0.0000	0.0971	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2040	1.8071	1.5191	2.2400e-003		0.1156	0.1156		0.1064	0.1064	0.0000	201.2733	201.2733	0.0635	0.0000	202.6057
<b>Total</b>	<b>0.2040</b>	<b>1.8071</b>	<b>1.5191</b>	<b>2.2400e-003</b>	<b>0.1783</b>	<b>0.1156</b>	<b>0.2939</b>	<b>0.0971</b>	<b>0.1064</b>	<b>0.2035</b>	<b>0.0000</b>	<b>201.2733</b>	<b>201.2733</b>	<b>0.0635</b>	<b>0.0000</b>	<b>202.6057</b>

### 3.4 Grading - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.3000e-004	0.0115	0.0112	5.0000e-005	2.1900e-003	3.1000e-004	2.5000e-003	5.7000e-004	2.9000e-004	8.6000e-004	0.0000	4.0631	4.0631	2.0000e-005	0.0000	4.0635
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	8.8100e-003	0.0128	0.1210	2.7000e-004	0.0230	1.5000e-004	0.0231	6.1000e-003	1.3000e-004	6.2400e-003	0.0000	17.4139	17.4139	1.0000e-003	0.0000	17.4348
<b>Total</b>	<b>9.6400e-003</b>	<b>0.0244</b>	<b>0.1322</b>	<b>3.2000e-004</b>	<b>0.0252</b>	<b>4.6000e-004</b>	<b>0.0256</b>	<b>6.6700e-003</b>	<b>4.2000e-004</b>	<b>7.1000e-003</b>	<b>0.0000</b>	<b>21.4769</b>	<b>21.4769</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>21.4983</b>

### 3.5 Building Construction - 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	0.3195	2.8396	2.4368	4.3600e-003		0.1588	0.1588		0.1519	0.1519	0.0000	380.8013	380.8013	0.0827	0.0000	382.5377
<b>Total</b>	<b>0.3195</b>	<b>2.8396</b>	<b>2.4368</b>	<b>4.3600e-003</b>		<b>0.1588</b>	<b>0.1588</b>		<b>0.1519</b>	<b>0.1519</b>	<b>0.0000</b>	<b>380.8013</b>	<b>380.8013</b>	<b>0.0827</b>	<b>0.0000</b>	<b>382.5377</b>

### 3.5 Building Construction - 2019

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3800e-003	0.0530	0.1073	1.6000e-004	4.6900e-003	1.0900e-003	5.7800e-003	1.3300e-003	1.0100e-003	2.3400e-003	0.0000	13.6923	13.6923	9.0000e-005	0.0000	0.0000	13.6942
Worker	7.9200e-003	0.0115	0.1089	2.4000e-004	0.0207	1.3000e-004	0.0208	5.4900e-003	1.2000e-004	5.6100e-003	0.0000	15.6662	15.6662	9.0000e-004	0.0000	0.0000	15.6850
<b>Total</b>	<b>0.0153</b>	<b>0.0645</b>	<b>0.2161</b>	<b>4.0000e-004</b>	<b>0.0254</b>	<b>1.2200e-003</b>	<b>0.0266</b>	<b>6.8200e-003</b>	<b>1.1300e-003</b>	<b>7.9500e-003</b>	<b>0.0000</b>	<b>29.3586</b>	<b>29.3586</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>29.3792</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	0.3195	2.4402	2.4368	4.3600e-003		0.1588	0.1588		0.1519	0.1519	0.0000	380.8008	380.8008	0.0827	0.0000	382.5372
<b>Total</b>	<b>0.3195</b>	<b>2.4402</b>	<b>2.4368</b>	<b>4.3600e-003</b>		<b>0.1588</b>	<b>0.1588</b>		<b>0.1519</b>	<b>0.1519</b>	<b>0.0000</b>	<b>380.8008</b>	<b>380.8008</b>	<b>0.0827</b>	<b>0.0000</b>	<b>382.5372</b>

### 3.5 Building Construction - 2019

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3800e-003	0.0530	0.1073	1.6000e-004	4.6900e-003	1.0900e-003	5.7800e-003	1.3300e-003	1.0100e-003	2.3400e-003	0.0000	13.6923	13.6923	9.0000e-005	0.0000	0.0000	13.6942
Worker	7.9200e-003	0.0115	0.1089	2.4000e-004	0.0207	1.3000e-004	0.0208	5.4900e-003	1.2000e-004	5.6100e-003	0.0000	15.6662	15.6662	9.0000e-004	0.0000	0.0000	15.6850
<b>Total</b>	<b>0.0153</b>	<b>0.0645</b>	<b>0.2161</b>	<b>4.0000e-004</b>	<b>0.0254</b>	<b>1.2200e-003</b>	<b>0.0266</b>	<b>6.8200e-003</b>	<b>1.1300e-003</b>	<b>7.9500e-003</b>	<b>0.0000</b>	<b>29.3586</b>	<b>29.3586</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>29.3792</b>

### 3.5 Building Construction - 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	0.0673	0.6012	0.5527	1.0000e-003		0.0321	0.0321		0.0307	0.0307	0.0000	86.3163	86.3163	0.0187	0.0000	86.7090
<b>Total</b>	<b>0.0673</b>	<b>0.6012</b>	<b>0.5527</b>	<b>1.0000e-003</b>		<b>0.0321</b>	<b>0.0321</b>		<b>0.0307</b>	<b>0.0307</b>	<b>0.0000</b>	<b>86.3163</b>	<b>86.3163</b>	<b>0.0187</b>	<b>0.0000</b>	<b>86.7090</b>

### 3.5 Building Construction - 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	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.4500e-003	0.0104	0.0226	4.0000e-005	1.0800e-003	2.3000e-004	1.3000e-003	3.1000e-004	2.1000e-004	5.1000e-004	0.0000	3.0679	3.0679	2.0000e-005	0.0000	0.0000	3.0683
Worker	1.7000e-003	2.4800e-003	0.0234	5.0000e-005	4.7500e-003	3.0000e-005	4.7800e-003	1.2600e-003	3.0000e-005	1.2900e-003	0.0000	3.4496	3.4496	2.0000e-004	0.0000	0.0000	3.4537
<b>Total</b>	<b>3.1500e-003</b>	<b>0.0128</b>	<b>0.0460</b>	<b>9.0000e-005</b>	<b>5.8300e-003</b>	<b>2.6000e-004</b>	<b>6.0800e-003</b>	<b>1.5700e-003</b>	<b>2.4000e-004</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>6.5175</b>	<b>6.5175</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.5220</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	0.0673	0.5166	0.5527	1.0000e-003		0.0321	0.0321		0.0307	0.0307	0.0000	86.3162	86.3162	0.0187	0.0000	86.7089
<b>Total</b>	<b>0.0673</b>	<b>0.5166</b>	<b>0.5527</b>	<b>1.0000e-003</b>		<b>0.0321</b>	<b>0.0321</b>		<b>0.0307</b>	<b>0.0307</b>	<b>0.0000</b>	<b>86.3162</b>	<b>86.3162</b>	<b>0.0187</b>	<b>0.0000</b>	<b>86.7089</b>

**3.5 Building Construction - 2020****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	1.4500e-003	0.0104	0.0226	4.0000e-005	1.0800e-003	2.3000e-004	1.3000e-003	3.1000e-004	2.1000e-004	5.1000e-004	0.0000	3.0679	3.0679	2.0000e-005	0.0000	3.0683
Worker	1.7000e-003	2.4800e-003	0.0234	5.0000e-005	4.7500e-003	3.0000e-005	4.7800e-003	1.2600e-003	3.0000e-005	1.2900e-003	0.0000	3.4496	3.4496	2.0000e-004	0.0000	3.4537
<b>Total</b>	<b>3.1500e-003</b>	<b>0.0128</b>	<b>0.0460</b>	<b>9.0000e-005</b>	<b>5.8300e-003</b>	<b>2.6000e-004</b>	<b>6.0800e-003</b>	<b>1.5700e-003</b>	<b>2.4000e-004</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>6.5175</b>	<b>6.5175</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>6.5220</b>

**3.6 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	0.1061	0.9824	0.8173	1.4400e-003		0.0516	0.0516		0.0486	0.0486	0.0000	124.1472	124.1472	0.0311	0.0000	124.7994
Paving	2.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1082</b>	<b>0.9824</b>	<b>0.8173</b>	<b>1.4400e-003</b>		<b>0.0516</b>	<b>0.0516</b>		<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>124.1472</b>	<b>124.1472</b>	<b>0.0311</b>	<b>0.0000</b>	<b>124.7994</b>



### 3.6 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1700e-003	7.5600e-003	0.0712	1.7000e-004	0.0145	9.0000e-005	0.0146	3.8400e-003	9.0000e-005	3.9300e-003	0.0000	10.5170	10.5170	6.0000e-004	0.0000	10.5295
<b>Total</b>	<b>5.1700e-003</b>	<b>7.5600e-003</b>	<b>0.0712</b>	<b>1.7000e-004</b>	<b>0.0145</b>	<b>9.0000e-005</b>	<b>0.0146</b>	<b>3.8400e-003</b>	<b>9.0000e-005</b>	<b>3.9300e-003</b>	<b>0.0000</b>	<b>10.5170</b>	<b>10.5170</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>10.5295</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	0.1061	0.8401	0.8173	1.4400e-003		0.0516	0.0516		0.0486	0.0486	0.0000	124.1470	124.1470	0.0311	0.0000	124.7992
Paving	2.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1082</b>	<b>0.8401</b>	<b>0.8173</b>	<b>1.4400e-003</b>		<b>0.0516</b>	<b>0.0516</b>		<b>0.0486</b>	<b>0.0486</b>	<b>0.0000</b>	<b>124.1470</b>	<b>124.1470</b>	<b>0.0311</b>	<b>0.0000</b>	<b>124.7992</b>

### 3.6 Paving - 2020

#### 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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1700e-003	7.5600e-003	0.0712	1.7000e-004	0.0145	9.0000e-005	0.0146	3.8400e-003	9.0000e-005	3.9300e-003	0.0000	10.5170	10.5170	6.0000e-004	0.0000	10.5295	
<b>Total</b>	<b>5.1700e-003</b>	<b>7.5600e-003</b>	<b>0.0712</b>	<b>1.7000e-004</b>	<b>0.0145</b>	<b>9.0000e-005</b>	<b>0.0146</b>	<b>3.8400e-003</b>	<b>9.0000e-005</b>	<b>3.9300e-003</b>	<b>0.0000</b>	<b>10.5170</b>	<b>10.5170</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>10.5295</b>	

### 3.7 Architectural Coating - 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					
Archit. Coating	0.5624					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0365	0.3320	0.4077	6.6000e-004		0.0171	0.0171		0.0168	0.0168	0.0000	56.6069	56.6069	0.0102	0.0000	56.8200
<b>Total</b>	<b>0.5989</b>	<b>0.3320</b>	<b>0.4077</b>	<b>6.6000e-004</b>		<b>0.0171</b>	<b>0.0171</b>		<b>0.0168</b>	<b>0.0168</b>	<b>0.0000</b>	<b>56.6069</b>	<b>56.6069</b>	<b>0.0102</b>	<b>0.0000</b>	<b>56.8200</b>

### 3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1800e-003	1.7300e-003	0.0163	4.0000e-005	3.3100e-003	2.0000e-005	3.3300e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.4039	2.4039	1.4000e-004	0.0000	2.4067
<b>Total</b>	<b>1.1800e-003</b>	<b>1.7300e-003</b>	<b>0.0163</b>	<b>4.0000e-005</b>	<b>3.3100e-003</b>	<b>2.0000e-005</b>	<b>3.3300e-003</b>	<b>8.8000e-004</b>	<b>2.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.4039</b>	<b>2.4039</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.4067</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					
Archit. Coating	0.5624					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0365	0.2872	0.4077	6.6000e-004		0.0171	0.0171		0.0168	0.0168	0.0000	56.6068	56.6068	0.0102	0.0000	56.8199
<b>Total</b>	<b>0.5989</b>	<b>0.2872</b>	<b>0.4077</b>	<b>6.6000e-004</b>		<b>0.0171</b>	<b>0.0171</b>		<b>0.0168</b>	<b>0.0168</b>	<b>0.0000</b>	<b>56.6068</b>	<b>56.6068</b>	<b>0.0102</b>	<b>0.0000</b>	<b>56.8199</b>

### 3.7 Architectural Coating - 2020

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1800e-003	1.7300e-003	0.0163	4.0000e-005	3.3100e-003	2.0000e-005	3.3300e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.4039	2.4039	1.4000e-004	0.0000	2.4067
<b>Total</b>	<b>1.1800e-003</b>	<b>1.7300e-003</b>	<b>0.0163</b>	<b>4.0000e-005</b>	<b>3.3100e-003</b>	<b>2.0000e-005</b>	<b>3.3300e-003</b>	<b>8.8000e-004</b>	<b>2.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.4039</b>	<b>2.4039</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.4067</b>

### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0195	0.0581	0.2480	5.9000e-004	0.0390	1.1600e-003	0.0402	0.0104	1.0600e-003	0.0115	0.0000	41.0317	41.0317	1.5000e-003	0.0000	41.0632
Unmitigated	0.0195	0.0581	0.2480	5.9000e-004	0.0390	1.1600e-003	0.0402	0.0104	1.0600e-003	0.0115	0.0000	41.0317	41.0317	1.5000e-003	0.0000	41.0632

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	32.49	32.49	32.49	102,067	102,067
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>32.49</b>	<b>32.49</b>	<b>32.49</b>	<b>102,067</b>	<b>102,067</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	12.50	4.20	5.40	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.470072	0.065402	0.168902	0.158101	0.038677	0.006237	0.011529	0.071911	0.001380	0.001204	0.003651	0.000525	0.002410

**5.0 Energy Detail**

**4.4 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**



### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

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

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.40999e+006	812.8183	0.0186	3.8400e-003	814.3973
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>812.8183</b>	<b>0.0186</b>	<b>3.8400e-003</b>	<b>814.3973</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.40999e+006	812.8183	0.0186	3.8400e-003	814.3973
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>812.8183</b>	<b>0.0186</b>	<b>3.8400e-003</b>	<b>814.3973</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4917	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7300e-003	1.7300e-003	0.0000	0.0000	1.8300e-003
Unmitigated	0.4917	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7300e-003	1.7300e-003	0.0000	0.0000	1.8300e-003



## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1125					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3791					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7300e-003	1.7300e-003	0.0000	0.0000	1.8300e-003
<b>Total</b>	<b>0.4917</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7300e-003</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8300e-003</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1125					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3791					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7300e-003	1.7300e-003	0.0000	0.0000	1.8300e-003
<b>Total</b>	<b>0.4917</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7300e-003</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8300e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

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

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

#### Category/Year

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

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 9.0 Operational Offroad

---

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

## **10.0 Vegetation**

---

**CWA CR6 Project - Options 1B and 1C**  
**Salton Sea Air Basin, Summer**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	27.07	1000sqft	8.39	27,072.00	0
Other Asphalt Surfaces	70.00	1000sqft	1.61	70,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	20
<b>Climate Zone</b>	15			<b>Operational Year</b>	2021
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MWhr)</b>	1270.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

## Project Characteristics -

Land Use - Assumes 30,000SF and 50,000SF paving for the well sites and RRF site, respectively. A total combined 10 acres assumed for well sitse and RRF.

Construction Phase - Well site construction = 2 years; RRF construction = 3 years; assumes combined total of 3 years for buildout; Early 2018 to late 2020.

Off-road Equipment - Construction list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Grading - Material import = AB base.

Demolition -

Trips and VMT - Assumes 30 miles, one way, for material hauling.

On-road Fugitive Dust - Project is located in urban environment, all roadways are paved.

Architectural Coating - Low VOC Content coatings per SCAQMD Rule 1113.

Vehicle Trips - New trips are minimal, based on traffic numbers in project IS.

Road Dust - All roads will be paved.

Landscape Equipment - No landscaping proposed.

Energy Use - 1,080,000Kwh/year for well sites, 333,000 kWh/year for RRF.

Water And Wastewater - Proposed water treatment, No new water use.

Solid Waste - No solid waste, WWT.

Construction Off-road Equipment Mitigation - Apply standard dust control management and equipment to use oxidation catalysts with 15% reduction equiv.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	125.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	125.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	125.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00





tblConstructionPhase	NumDays	230.00	150.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	20.00	300.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	10.00	50.00
tblEnergyUse	LightingElect	3.36	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.69	52.08
tblEnergyUse	T24NG	16.16	0.00
tblGrading	AcresOfGrading	525.00	10.00
tblGrading	MaterialImported	0.00	1,555.00
tblLandUse	LotAcreage	0.62	8.39
tblOffRoadEquipment	HorsePower	208.00	62.00
tblOffRoadEquipment	HorsePower	78.00	81.00
tblOffRoadEquipment	HorsePower	46.00	255.00
tblOffRoadEquipment	HorsePower	62.00	78.00
tblOffRoadEquipment	HorsePower	199.00	255.00
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.46	0.46
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.48	0.48
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.43	0.31

tblOffRoadEquipment	LoadFactor	0.34	0.34
tblOffRoadEquipment	LoadFactor	0.48	0.73
tblOffRoadEquipment	LoadFactor	0.45	0.40
tblOffRoadEquipment	LoadFactor	0.31	0.48
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pressure Washers
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Sweepers/Scrubbers
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Surfacing Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Welders
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00

tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblProjectCharacteristics	OperationalYear	2014	2021
tblRoadDust	RoadPercentPave	50	100
tblSolidWaste	SolidWasteGenerationRate	33.57	0.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	WorkerTripNumber	53.00	48.00
tblVehicleTrips	ST_TR	1.32	1.20
tblVehicleTrips	SU_TR	0.68	1.20
tblVehicleTrips	WD_TR	6.97	1.20
tblWater	IndoorWaterUseRate	6,259,937.50	0.00

## 2.0 Emissions Summary

---

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	5.5996	54.4401	42.8440	0.0640	9.1837	2.8264	10.3674	5.0053	2.6623	6.0942	0.0000	6,268.0697	6,268.0697	1.3654	0.0000	6,296.7424
2019	5.5179	47.5583	43.5623	0.0781	3.4139	2.6234	5.0840	1.7562	2.5083	3.2930	0.0000	7,418.4523	7,418.4523	1.5119	0.0000	7,450.2031
2020	12.0079	43.8179	42.8036	0.0781	0.4206	2.3100	2.7306	0.1130	2.2074	2.3204	0.0000	7,315.7661	7,315.7661	1.4891	0.0000	7,347.0380
<b>Total</b>	<b>23.1254</b>	<b>145.8163</b>	<b>129.2098</b>	<b>0.2202</b>	<b>13.0183</b>	<b>7.7597</b>	<b>18.1820</b>	<b>6.8744</b>	<b>7.3781</b>	<b>11.7076</b>	<b>0.0000</b>	<b>21,002.2881</b>	<b>21,002.2881</b>	<b>4.3665</b>	<b>0.0000</b>	<b>21,093.9835</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	5.5996	47.6840	42.8440	0.0640	3.6735	2.8264	4.8572	1.9764	2.6623	3.0654	0.0000	6,268.0697	6,268.0697	1.3654	0.0000	6,296.7424
2019	5.5179	41.0103	43.5623	0.0781	1.5550	2.6234	3.2250	0.7441	2.5083	2.6213	0.0000	7,418.4523	7,418.4523	1.5119	0.0000	7,450.2031
2020	12.0079	37.7725	42.8036	0.0781	0.4206	2.3100	2.7306	0.1130	2.2074	2.3204	0.0000	7,315.7661	7,315.7661	1.4891	0.0000	7,347.0380
<b>Total</b>	<b>23.1254</b>	<b>126.4668</b>	<b>129.2098</b>	<b>0.2202</b>	<b>5.6492</b>	<b>7.7597</b>	<b>10.8128</b>	<b>2.8335</b>	<b>7.3781</b>	<b>8.0071</b>	<b>0.0000</b>	<b>21,002.2881</b>	<b>21,002.2881</b>	<b>4.3665</b>	<b>0.0000</b>	<b>21,093.9835</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	13.27	0.00	0.00	56.61	0.00	40.53	58.78	0.00	31.61	0.00	0.00	0.00	0.00	0.00	0.00

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6946	9.0000e-005	9.9500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0212	0.0212	6.0000e-005		0.0224
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1244	0.3009	1.4298	3.2900e-003	0.2169	6.3500e-003	0.2233	0.0579	5.8500e-003	0.0638		252.0024	252.0024	9.0800e-003		252.1931
<b>Total</b>	<b>2.8191</b>	<b>0.3010</b>	<b>1.4397</b>	<b>3.2900e-003</b>	<b>0.2169</b>	<b>6.3900e-003</b>	<b>0.2233</b>	<b>0.0579</b>	<b>5.8900e-003</b>	<b>0.0638</b>		<b>252.0236</b>	<b>252.0236</b>	<b>9.1400e-003</b>	<b>0.0000</b>	<b>252.2155</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6946	9.0000e-005	9.9500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0212	0.0212	6.0000e-005		0.0224
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1244	0.3009	1.4298	3.2900e-003	0.2169	6.3500e-003	0.2233	0.0579	5.8500e-003	0.0638		252.0024	252.0024	9.0800e-003		252.1931
<b>Total</b>	<b>2.8191</b>	<b>0.3010</b>	<b>1.4397</b>	<b>3.2900e-003</b>	<b>0.2169</b>	<b>6.3900e-003</b>	<b>0.2233</b>	<b>0.0579</b>	<b>5.8900e-003</b>	<b>0.0638</b>		<b>252.0236</b>	<b>252.0236</b>	<b>9.1400e-003</b>	<b>0.0000</b>	<b>252.2155</b>



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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	3/9/2018	5	50	
2	Site Preparation	Site Preparation	3/10/2018	5/18/2018	5	50	
3	Grading	Grading	5/19/2018	7/12/2019	5	300	
4	Building Construction	Building Construction	7/13/2019	2/7/2020	5	150	
5	Paving	Paving	2/8/2020	6/26/2020	5	100	
6	Architectural Coating	Architectural Coating	6/27/2020	11/13/2020	5	100	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 145,608; Non-Residential Outdoor: 48,536 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	4.00	81	0.73
Demolition	Excavators	1	4.00	162	0.38
Demolition	Welders	1	4.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Grading	Plate Compactors	1	4.00	8	0.43

Grading	Rollers	1	4.00	80	0.38
Grading	Rubber Tired Loaders	1	4.00	199	0.36
Grading	Scrapers	1	4.00	361	0.48
Grading	Skid Steer Loaders	1	4.00	64	0.37
Paving	Plate Compactors	1	4.00	8	0.43
Paving	Surfacing Equipment	1	4.00	253	0.30
Site Preparation	Rubber Tired Dozers	3	4.00	255	0.40
Building Construction	Forklifts	3	8.00	89	0.20
Site Preparation	Tractors/Loaders/Backhoes	4	4.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Crawler Tractors	4	4.00	62	0.31
Grading	Excavators	1	4.00	162	0.38
Grading	Graders	1	4.00	174	0.41
Grading	Rubber Tired Dozers	1	4.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Paving	Concrete/Industrial Saws	1	4.00	81	0.73
Paving	Crawler Tractors	1	4.00	208	0.43
Paving	Forklifts	1	4.00	89	0.20
Paving	Generator Sets	1	4.00	84	0.74
Paving	Graders	1	4.00	174	0.41
Paving	Pavers	1	4.00	125	0.42
Paving	Paving Equipment	1	4.00	130	0.36
Paving	Rollers	1	4.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Paving	Welders	2	4.00	46	0.45
Building Construction	Aerial Lifts	6	4.00	62	0.31
Building Construction	Air Compressors	4	4.00	78	0.48

Building Construction	Bore/Drill Rigs	1	4.00	205	0.50
Building Construction	Cement and Mortar Mixers	2	4.00	9	0.56
Building Construction	Concrete/Industrial Saws	2	4.00	81	0.73
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Crushing/Proc. Equipment	1	4.00	85	0.78
Building Construction	Graders	1	4.00	174	0.41
Building Construction	Other General Industrial Equipment	1	4.00	87	0.34
Building Construction	Plate Compactors	1	4.00	8	0.43
Building Construction	Pressure Washers	1	4.00	13	0.30
Building Construction	Pumps	1	4.00	84	0.74
Building Construction	Rollers	1	4.00	80	0.38
Building Construction	Rough Terrain Forklifts	1	4.00	100	0.40
Building Construction	Rubber Tired Loaders	2	4.00	255	0.40
Building Construction	Skid Steer Loaders	1	4.00	64	0.37
Building Construction	Surfacing Equipment	1	4.00	253	0.30
Demolition	Concrete/Industrial Saws	2	4.00	81	0.73
Building Construction	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Building Construction	Welders	2	4.00	46	0.45
Architectural Coating	Aerial Lifts	3	4.00	78	0.48
Architectural Coating	Air Compressors	2	4.00	78	0.48
Architectural Coating	Forklifts	1	4.00	89	0.20
Architectural Coating	Generator Sets	1	4.00	84	0.74
Architectural Coating	Pressure Washers	1	4.00	13	0.30
Grading	Other General Industrial Equipment	2	4.00	87	0.34
Demolition	Crawler Tractors	2	4.00	208	0.43
Demolition	Forklifts	1	4.00	89	0.20
Demolition	Generator Sets	2	4.00	84	0.74
Demolition	Pressure Washers	2	4.00	13	0.30

Demolition	Rough Terrain Forklifts	1	4.00	100	0.40
Demolition	Skid Steer Loaders	2	4.00	64	0.37
Demolition	Sweepers/Scrubbers	2	4.00	64	0.46

**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
Demolition	21	48.00	0.00	1.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	16	40.00	0.00	194.00	11.00	5.40	30.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	8.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	14	35.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	36	41.00	16.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Oxidation Catalyst for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

### 3.2 Demolition - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					4.4500e-003	0.0000	4.4500e-003	6.7000e-004	0.0000	6.7000e-004			0.0000				0.0000
Off-Road	5.3941	54.2126	40.3127	0.0593		2.8238	2.8238		2.6599	2.6599		5,915.7837	5,915.7837	1.3453			5,944.0354
<b>Total</b>	<b>5.3941</b>	<b>54.2126</b>	<b>40.3127</b>	<b>0.0593</b>	<b>4.4500e-003</b>	<b>2.8238</b>	<b>2.8282</b>	<b>6.7000e-004</b>	<b>2.6599</b>	<b>2.6606</b>		<b>5,915.7837</b>	<b>5,915.7837</b>	<b>1.3453</b>			<b>5,944.0354</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	lb/day										lb/day						
Hauling	3.1000e-004	3.6200e-003	4.1900e-003	1.0000e-005	3.5000e-004	1.0000e-004	4.5000e-004	1.0000e-004	9.0000e-005	1.8000e-004		1.3641	1.3641	1.0000e-005			1.3643
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.2053	0.2239	2.5271	4.6800e-003	0.4016	2.5100e-003	0.4041	0.1065	2.3200e-003	0.1088		350.9219	350.9219	0.0200			351.3427
<b>Total</b>	<b>0.2056</b>	<b>0.2275</b>	<b>2.5313</b>	<b>4.6900e-003</b>	<b>0.4020</b>	<b>2.6100e-003</b>	<b>0.4046</b>	<b>0.1066</b>	<b>2.4100e-003</b>	<b>0.1090</b>		<b>352.2860</b>	<b>352.2860</b>	<b>0.0201</b>			<b>352.7070</b>

**3.2 Demolition - 2018****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7300e-003	0.0000	1.7300e-003	2.6000e-004	0.0000	2.6000e-004			0.0000			0.0000
Off-Road	5.3941	47.4565	40.3127	0.0593		2.8238	2.8238		2.6599	2.6599	0.0000	5,915.7837	5,915.7837	1.3453		5,944.0354
<b>Total</b>	<b>5.3941</b>	<b>47.4565</b>	<b>40.3127</b>	<b>0.0593</b>	<b>1.7300e-003</b>	<b>2.8238</b>	<b>2.8255</b>	<b>2.6000e-004</b>	<b>2.6599</b>	<b>2.6602</b>	<b>0.0000</b>	<b>5,915.7837</b>	<b>5,915.7837</b>	<b>1.3453</b>		<b>5,944.0354</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	lb/day										lb/day					
Hauling	3.1000e-004	3.6200e-003	4.1900e-003	1.0000e-005	3.5000e-004	1.0000e-004	4.5000e-004	1.0000e-004	9.0000e-005	1.8000e-004		1.3641	1.3641	1.0000e-005		1.3643
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2053	0.2239	2.5271	4.6800e-003	0.4016	2.5100e-003	0.4041	0.1065	2.3200e-003	0.1088		350.9219	350.9219	0.0200		351.3427
<b>Total</b>	<b>0.2056</b>	<b>0.2275</b>	<b>2.5313</b>	<b>4.6900e-003</b>	<b>0.4020</b>	<b>2.6100e-003</b>	<b>0.4046</b>	<b>0.1066</b>	<b>2.4100e-003</b>	<b>0.1090</b>		<b>352.2860</b>	<b>352.2860</b>	<b>0.0201</b>		<b>352.7070</b>

### 3.3 Site Preparation - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653			0.0000			0.0000
Off-Road	2.1461	22.8044	18.1173	0.0196		1.1827	1.1827		1.0881	1.0881		1,969.8866	1,969.8866	0.6133		1,982.7649
<b>Total</b>	<b>2.1461</b>	<b>22.8044</b>	<b>18.1173</b>	<b>0.0196</b>	<b>9.0331</b>	<b>1.1827</b>	<b>10.2158</b>	<b>4.9653</b>	<b>1.0881</b>	<b>6.0534</b>		<b>1,969.8866</b>	<b>1,969.8866</b>	<b>0.6133</b>		<b>1,982.7649</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0770	0.0840	0.9477	1.7600e-003	0.1506	9.4000e-004	0.1515	0.0400	8.7000e-004	0.0408		131.5957	131.5957	7.5200e-003		131.7535
<b>Total</b>	<b>0.0770</b>	<b>0.0840</b>	<b>0.9477</b>	<b>1.7600e-003</b>	<b>0.1506</b>	<b>9.4000e-004</b>	<b>0.1515</b>	<b>0.0400</b>	<b>8.7000e-004</b>	<b>0.0408</b>		<b>131.5957</b>	<b>131.5957</b>	<b>7.5200e-003</b>		<b>131.7535</b>

### 3.3 Site Preparation - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.5229	0.0000	3.5229	1.9365	0.0000	1.9365			0.0000			0.0000
Off-Road	2.1461	20.2785	18.1173	0.0196		1.1827	1.1827		1.0881	1.0881	0.0000	1,969.8866	1,969.8866	0.6133		1,982.7649
<b>Total</b>	<b>2.1461</b>	<b>20.2785</b>	<b>18.1173</b>	<b>0.0196</b>	<b>3.5229</b>	<b>1.1827</b>	<b>4.7056</b>	<b>1.9365</b>	<b>1.0881</b>	<b>3.0246</b>	<b>0.0000</b>	<b>1,969.8866</b>	<b>1,969.8866</b>	<b>0.6133</b>		<b>1,982.7649</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0770	0.0840	0.9477	1.7600e-003	0.1506	9.4000e-004	0.1515	0.0400	8.7000e-004	0.0408		131.5957	131.5957	7.5200e-003		131.7535
<b>Total</b>	<b>0.0770</b>	<b>0.0840</b>	<b>0.9477</b>	<b>1.7600e-003</b>	<b>0.1506</b>	<b>9.4000e-004</b>	<b>0.1515</b>	<b>0.0400</b>	<b>8.7000e-004</b>	<b>0.0408</b>		<b>131.5957</b>	<b>131.5957</b>	<b>7.5200e-003</b>		<b>131.7535</b>



### 3.4 Grading - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					3.0474	0.0000	3.0474	1.6591	0.0000	1.6591			0.0000				0.0000
Off-Road	3.1724	32.9648	22.6001	0.0323		1.8399	1.8399		1.6931	1.6931		3,244.6261	3,244.6261	1.0065			3,265.7630
<b>Total</b>	<b>3.1724</b>	<b>32.9648</b>	<b>22.6001</b>	<b>0.0323</b>	<b>3.0474</b>	<b>1.8399</b>	<b>4.8873</b>	<b>1.6591</b>	<b>1.6931</b>	<b>3.3522</b>		<b>3,244.6261</b>	<b>3,244.6261</b>	<b>1.0065</b>			<b>3,265.7630</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	lb/day										lb/day						
Hauling	0.0123	0.1689	0.1577	6.7000e-004	0.0281	4.6300e-003	0.0327	7.3700e-003	4.2600e-003	0.0116		65.5971	65.5971	3.5000e-004			65.6044
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1711	0.1866	2.1059	3.9000e-003	0.3347	2.0900e-003	0.3368	0.0888	1.9300e-003	0.0907		292.4349	292.4349	0.0167			292.7856
<b>Total</b>	<b>0.1834</b>	<b>0.3554</b>	<b>2.2636</b>	<b>4.5700e-003</b>	<b>0.3627</b>	<b>6.7200e-003</b>	<b>0.3694</b>	<b>0.0961</b>	<b>6.1900e-003</b>	<b>0.1023</b>		<b>358.0320</b>	<b>358.0320</b>	<b>0.0171</b>			<b>358.3900</b>

### 3.4 Grading - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					1.1885	0.0000	1.1885	0.6470	0.0000	0.6470			0.0000				0.0000
Off-Road	3.1724	28.3183	22.6001	0.0323		1.8399	1.8399		1.6931	1.6931	0.0000	3,244.6261	3,244.6261	1.0065			3,265.7630
<b>Total</b>	<b>3.1724</b>	<b>28.3183</b>	<b>22.6001</b>	<b>0.0323</b>	<b>1.1885</b>	<b>1.8399</b>	<b>3.0284</b>	<b>0.6470</b>	<b>1.6931</b>	<b>2.3401</b>	<b>0.0000</b>	<b>3,244.6261</b>	<b>3,244.6261</b>	<b>1.0065</b>			<b>3,265.7630</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	lb/day										lb/day						
Hauling	0.0123	0.1689	0.1577	6.7000e-004	0.0281	4.6300e-003	0.0327	7.3700e-003	4.2600e-003	0.0116		65.5971	65.5971	3.5000e-004			65.6044
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1711	0.1866	2.1059	3.9000e-003	0.3347	2.0900e-003	0.3368	0.0888	1.9300e-003	0.0907		292.4349	292.4349	0.0167			292.7856
<b>Total</b>	<b>0.1834</b>	<b>0.3554</b>	<b>2.2636</b>	<b>4.5700e-003</b>	<b>0.3627</b>	<b>6.7200e-003</b>	<b>0.3694</b>	<b>0.0961</b>	<b>6.1900e-003</b>	<b>0.1023</b>		<b>358.0320</b>	<b>358.0320</b>	<b>0.0171</b>			<b>358.3900</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0474	0.0000	3.0474	1.6591	0.0000	1.6591			0.0000			0.0000
Off-Road	2.9358	30.2584	21.8573	0.0323		1.6634	1.6634		1.5307	1.5307		3,192.3175	3,192.3175	1.0064		3,213.4509
<b>Total</b>	<b>2.9358</b>	<b>30.2584</b>	<b>21.8573</b>	<b>0.0323</b>	<b>3.0474</b>	<b>1.6634</b>	<b>4.7109</b>	<b>1.6591</b>	<b>1.5307</b>	<b>3.1898</b>		<b>3,192.3175</b>	<b>3,192.3175</b>	<b>1.0064</b>		<b>3,213.4509</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	lb/day										lb/day					
Hauling	0.0118	0.1553	0.1531	6.7000e-004	0.0318	4.5100e-003	0.0363	8.3000e-003	4.1500e-003	0.0125		64.4881	64.4881	3.5000e-004		64.4954
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1570	0.1724	1.9471	3.9000e-003	0.3347	2.0900e-003	0.3368	0.0888	1.9400e-003	0.0907		281.4765	281.4765	0.0158		281.8080
<b>Total</b>	<b>0.1688</b>	<b>0.3277</b>	<b>2.1002</b>	<b>4.5700e-003</b>	<b>0.3665</b>	<b>6.6000e-003</b>	<b>0.3731</b>	<b>0.0971</b>	<b>6.0900e-003</b>	<b>0.1032</b>		<b>345.9646</b>	<b>345.9646</b>	<b>0.0161</b>		<b>346.3034</b>

### 3.4 Grading - 2019

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1885	0.0000	1.1885	0.6470	0.0000	0.6470			0.0000			0.0000
Off-Road	2.9358	26.0015	21.8573	0.0323		1.6634	1.6634		1.5307	1.5307	0.0000	3,192.3175	3,192.3175	1.0064		3,213.4509
<b>Total</b>	<b>2.9358</b>	<b>26.0015</b>	<b>21.8573</b>	<b>0.0323</b>	<b>1.1885</b>	<b>1.6634</b>	<b>2.8519</b>	<b>0.6470</b>	<b>1.5307</b>	<b>2.1778</b>	<b>0.0000</b>	<b>3,192.3175</b>	<b>3,192.3175</b>	<b>1.0064</b>		<b>3,213.4509</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	lb/day										lb/day					
Hauling	0.0118	0.1553	0.1531	6.7000e-004	0.0318	4.5100e-003	0.0363	8.3000e-003	4.1500e-003	0.0125		64.4881	64.4881	3.5000e-004		64.4954
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1570	0.1724	1.9471	3.9000e-003	0.3347	2.0900e-003	0.3368	0.0888	1.9400e-003	0.0907		281.4765	281.4765	0.0158		281.8080
<b>Total</b>	<b>0.1688</b>	<b>0.3277</b>	<b>2.1002</b>	<b>4.5700e-003</b>	<b>0.3665</b>	<b>6.6000e-003</b>	<b>0.3731</b>	<b>0.0971</b>	<b>6.0900e-003</b>	<b>0.1032</b>		<b>345.9646</b>	<b>345.9646</b>	<b>0.0161</b>		<b>346.3034</b>

### 3.5 Building Construction - 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	5.2377	46.5515	39.9471	0.0715		2.6034	2.6034		2.4899	2.4899		6,881.3369	6,881.3369	1.4942		6,912.7147
<b>Total</b>	<b>5.2377</b>	<b>46.5515</b>	<b>39.9471</b>	<b>0.0715</b>		<b>2.6034</b>	<b>2.6034</b>		<b>2.4899</b>	<b>2.4899</b>		<b>6,881.3369</b>	<b>6,881.3369</b>	<b>1.4942</b>		<b>6,912.7147</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	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	0.1192	0.8301	1.6195	2.6100e-003	0.0776	0.0179	0.0955	0.0220	0.0164	0.0384		248.6020	248.6020	1.5800e-003		248.6351
Worker	0.1609	0.1767	1.9957	3.9900e-003	0.3430	2.1500e-003	0.3452	0.0910	1.9900e-003	0.0930		288.5134	288.5134	0.0162		288.8532
<b>Total</b>	<b>0.2801</b>	<b>1.0068</b>	<b>3.6152</b>	<b>6.6000e-003</b>	<b>0.4207</b>	<b>0.0200</b>	<b>0.4407</b>	<b>0.1130</b>	<b>0.0184</b>	<b>0.1314</b>		<b>537.1154</b>	<b>537.1154</b>	<b>0.0178</b>		<b>537.4883</b>

### 3.5 Building Construction - 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	5.2377	40.0035	39.9471	0.0715		2.6034	2.6034		2.4899	2.4899	0.0000	6,881.3369	6,881.3369	1.4942		6,912.7147
<b>Total</b>	<b>5.2377</b>	<b>40.0035</b>	<b>39.9471</b>	<b>0.0715</b>		<b>2.6034</b>	<b>2.6034</b>		<b>2.4899</b>	<b>2.4899</b>	<b>0.0000</b>	<b>6,881.3369</b>	<b>6,881.3369</b>	<b>1.4942</b>		<b>6,912.7147</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	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	0.1192	0.8301	1.6195	2.6100e-003	0.0776	0.0179	0.0955	0.0220	0.0164	0.0384		248.6020	248.6020	1.5800e-003		248.6351
Worker	0.1609	0.1767	1.9957	3.9900e-003	0.3430	2.1500e-003	0.3452	0.0910	1.9900e-003	0.0930		288.5134	288.5134	0.0162		288.8532
<b>Total</b>	<b>0.2801</b>	<b>1.0068</b>	<b>3.6152</b>	<b>6.6000e-003</b>	<b>0.4207</b>	<b>0.0200</b>	<b>0.4407</b>	<b>0.1130</b>	<b>0.0184</b>	<b>0.1314</b>		<b>537.1154</b>	<b>537.1154</b>	<b>0.0178</b>		<b>537.4883</b>

### 3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	4.8036	42.9449	39.4770	0.0715		2.2918	2.2918		2.1907	2.1907		6,796.2450	6,796.2450	1.4722		6,827.1612
<b>Total</b>	<b>4.8036</b>	<b>42.9449</b>	<b>39.4770</b>	<b>0.0715</b>		<b>2.2918</b>	<b>2.2918</b>		<b>2.1907</b>	<b>2.1907</b>		<b>6,796.2450</b>	<b>6,796.2450</b>	<b>1.4722</b>		<b>6,827.1612</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	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	0.1017	0.7075	1.4619	2.6000e-003	0.0776	0.0161	0.0937	0.0220	0.0148	0.0368		242.7054	242.7054	1.5200e-003		242.7373
Worker	0.1497	0.1655	1.8647	3.9900e-003	0.3430	2.1500e-003	0.3452	0.0910	1.9900e-003	0.0930		276.8157	276.8157	0.0154		277.1395
<b>Total</b>	<b>0.2514</b>	<b>0.8730</b>	<b>3.3266</b>	<b>6.5900e-003</b>	<b>0.4206</b>	<b>0.0182</b>	<b>0.4388</b>	<b>0.1130</b>	<b>0.0168</b>	<b>0.1297</b>		<b>519.5211</b>	<b>519.5211</b>	<b>0.0169</b>		<b>519.8768</b>

### 3.5 Building Construction - 2020

#### 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	4.8036	36.8994	39.4770	0.0715		2.2918	2.2918		2.1907	2.1907	0.0000	6,796.2450	6,796.2450	1.4722		6,827.1612
<b>Total</b>	<b>4.8036</b>	<b>36.8994</b>	<b>39.4770</b>	<b>0.0715</b>		<b>2.2918</b>	<b>2.2918</b>		<b>2.1907</b>	<b>2.1907</b>	<b>0.0000</b>	<b>6,796.2450</b>	<b>6,796.2450</b>	<b>1.4722</b>		<b>6,827.1612</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	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	0.1017	0.7075	1.4619	2.6000e-003	0.0776	0.0161	0.0937	0.0220	0.0148	0.0368		242.7054	242.7054	1.5200e-003		242.7373
Worker	0.1497	0.1655	1.8647	3.9900e-003	0.3430	2.1500e-003	0.3452	0.0910	1.9900e-003	0.0930		276.8157	276.8157	0.0154		277.1395
<b>Total</b>	<b>0.2514</b>	<b>0.8730</b>	<b>3.3266</b>	<b>6.5900e-003</b>	<b>0.4206</b>	<b>0.0182</b>	<b>0.4388</b>	<b>0.1130</b>	<b>0.0168</b>	<b>0.1297</b>		<b>519.5211</b>	<b>519.5211</b>	<b>0.0169</b>		<b>519.8768</b>



### 3.6 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	lb/day										lb/day					
Off-Road	2.1227	19.6484	16.3466	0.0289		1.0317	1.0317		0.9723	0.9723		2,736.9765	2,736.9765	0.6847		2,751.3551
Paving	0.0422					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1649</b>	<b>19.6484</b>	<b>16.3466</b>	<b>0.0289</b>		<b>1.0317</b>	<b>1.0317</b>		<b>0.9723</b>	<b>0.9723</b>		<b>2,736.9765</b>	<b>2,736.9765</b>	<b>0.6847</b>		<b>2,751.3551</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1278	0.1413	1.5918	3.4100e-003	0.2928	1.8400e-003	0.2947	0.0777	1.7000e-003	0.0794		236.3061	236.3061	0.0132		236.5825
<b>Total</b>	<b>0.1278</b>	<b>0.1413</b>	<b>1.5918</b>	<b>3.4100e-003</b>	<b>0.2928</b>	<b>1.8400e-003</b>	<b>0.2947</b>	<b>0.0777</b>	<b>1.7000e-003</b>	<b>0.0794</b>		<b>236.3061</b>	<b>236.3061</b>	<b>0.0132</b>		<b>236.5825</b>

### 3.6 Paving - 2020

#### 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	2.1227	16.8019	16.3466	0.0289		1.0317	1.0317		0.9723	0.9723	0.0000	2,736.9765	2,736.9765	0.6847		2,751.3551
Paving	0.0422					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1649</b>	<b>16.8019</b>	<b>16.3466</b>	<b>0.0289</b>		<b>1.0317</b>	<b>1.0317</b>		<b>0.9723</b>	<b>0.9723</b>	<b>0.0000</b>	<b>2,736.9765</b>	<b>2,736.9765</b>	<b>0.6847</b>		<b>2,751.3551</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1278	0.1413	1.5918	3.4100e-003	0.2928	1.8400e-003	0.2947	0.0777	1.7000e-003	0.0794		236.3061	236.3061	0.0132		236.5825
<b>Total</b>	<b>0.1278</b>	<b>0.1413</b>	<b>1.5918</b>	<b>3.4100e-003</b>	<b>0.2928</b>	<b>1.8400e-003</b>	<b>0.2947</b>	<b>0.0777</b>	<b>1.7000e-003</b>	<b>0.0794</b>		<b>236.3061</b>	<b>236.3061</b>	<b>0.0132</b>		<b>236.5825</b>

### 3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	11.2482					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7305	6.6393	8.1534	0.0131		0.3428	0.3428		0.3357	0.3357		1,247.9675	1,247.9675	0.2238		1,252.6666
<b>Total</b>	<b>11.9787</b>	<b>6.6393</b>	<b>8.1534</b>	<b>0.0131</b>		<b>0.3428</b>	<b>0.3428</b>		<b>0.3357</b>	<b>0.3357</b>		<b>1,247.9675</b>	<b>1,247.9675</b>	<b>0.2238</b>		<b>1,252.6666</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0292	0.0323	0.3638	7.8000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		54.0128	54.0128	3.0100e-003		54.0760
<b>Total</b>	<b>0.0292</b>	<b>0.0323</b>	<b>0.3638</b>	<b>7.8000e-004</b>	<b>0.0669</b>	<b>4.2000e-004</b>	<b>0.0674</b>	<b>0.0178</b>	<b>3.9000e-004</b>	<b>0.0181</b>		<b>54.0128</b>	<b>54.0128</b>	<b>3.0100e-003</b>		<b>54.0760</b>

### 3.7 Architectural Coating - 2020

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.2482					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7305	5.7443	8.1534	0.0131		0.3428	0.3428		0.3357	0.3357	0.0000	1,247.9675	1,247.9675	0.2238		1,252.6666
<b>Total</b>	<b>11.9787</b>	<b>5.7443</b>	<b>8.1534</b>	<b>0.0131</b>		<b>0.3428</b>	<b>0.3428</b>		<b>0.3357</b>	<b>0.3357</b>	<b>0.0000</b>	<b>1,247.9675</b>	<b>1,247.9675</b>	<b>0.2238</b>		<b>1,252.6666</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0292	0.0323	0.3638	7.8000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		54.0128	54.0128	3.0100e-003		54.0760
<b>Total</b>	<b>0.0292</b>	<b>0.0323</b>	<b>0.3638</b>	<b>7.8000e-004</b>	<b>0.0669</b>	<b>4.2000e-004</b>	<b>0.0674</b>	<b>0.0178</b>	<b>3.9000e-004</b>	<b>0.0181</b>		<b>54.0128</b>	<b>54.0128</b>	<b>3.0100e-003</b>		<b>54.0760</b>

### 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1244	0.3009	1.4298	3.2900e-003	0.2169	6.3500e-003	0.2233	0.0579	5.8500e-003	0.0638		252.0024	252.0024	9.0800e-003		252.1931
Unmitigated	0.1244	0.3009	1.4298	3.2900e-003	0.2169	6.3500e-003	0.2233	0.0579	5.8500e-003	0.0638		252.0024	252.0024	9.0800e-003		252.1931

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	32.49	32.49	32.49	102,067	102,067
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	32.49	32.49	32.49	102,067	102,067

### 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
General Light Industry	12.50	4.20	5.40	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.470072	0.065402	0.168902	0.158101	0.038677	0.006237	0.011529	0.071911	0.001380	0.001204	0.003651	0.000525	0.002410

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

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

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

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

### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

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

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.6946	9.0000e-005	9.9500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0212	0.0212	6.0000e-005		0.0224
Unmitigated	2.6946	9.0000e-005	9.9500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0212	0.0212	6.0000e-005		0.0224

### 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	0.6163					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.3000e-004	9.0000e-005	9.9500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0212	0.0212	6.0000e-005		0.0224
<b>Total</b>	<b>2.6946</b>	<b>9.0000e-005</b>	<b>9.9500e-003</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0212</b>	<b>0.0212</b>	<b>6.0000e-005</b>		<b>0.0224</b>

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6163					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.3000e-004	9.0000e-005	9.9500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0212	0.0212	6.0000e-005		0.0224
<b>Total</b>	<b>2.6946</b>	<b>9.0000e-005</b>	<b>9.9500e-003</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0212</b>	<b>0.0212</b>	<b>6.0000e-005</b>		<b>0.0224</b>

### 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
----------------	--------	-----------	-----------	-------------	-------------	-----------

## 10.0 Vegetation

---

**CWA CR6 Project - Options 1B and 1C**  
**Salton Sea Air Basin, Winter**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	27.07	1000sqft	8.39	27,072.00	0
Other Asphalt Surfaces	70.00	1000sqft	1.61	70,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.4	<b>Precipitation Freq (Days)</b>	20
<b>Climate Zone</b>	15			<b>Operational Year</b>	2021
<b>Utility Company</b>	Imperial Irrigation District				
<b>CO2 Intensity (lb/MWhr)</b>	1270.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - Assumes 30,000SF and 50,000SF paving for the well sites and RRF site, respectively. A total combined 10 acres assumed for well sitse and RRF.

Construction Phase - Well site construction = 2 years; RRF construction = 3 years; assumes combined total of 3 years for buildout; Early 2018 to late 2020.

Off-road Equipment - Construction list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Off-road Equipment - Equipment list provided by project proponent.

Grading - Material import = AB base.

Demolition -

Trips and VMT - Assumes 30 miles, one way, for material hauling.

On-road Fugitive Dust - Project is located in urban environment, all roadways are paved.

Architectural Coating - Low VOC Content coatings per SCAQMD Rule 1113.

Vehicle Trips - New trips are minimal, based on traffic numbers in project IS.

Road Dust - All roads will be paved.

Landscape Equipment - No landscaping proposed.

Energy Use - 1,080,000Kwh/year for well sites, 333,000 kWh/year for RRF.

Water And Wastewater - Proposed water treatment, No new water use.

Solid Waste - No solid waste, WWT.

Construction Off-road Equipment Mitigation - Apply standard dust control management and equipment to use oxidation catalysts with 15% reduction equiv.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	125.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	125.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	125.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	125.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00

tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstructionPhase	NumDays	20.00	100.00

tblConstructionPhase	NumDays	230.00	150.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	20.00	300.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	NumDays	10.00	50.00
tblEnergyUse	LightingElect	3.36	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.69	52.08
tblEnergyUse	T24NG	16.16	0.00
tblGrading	AcresOfGrading	525.00	10.00
tblGrading	MaterialImported	0.00	1,555.00
tblLandUse	LotAcreage	0.62	8.39
tblOffRoadEquipment	HorsePower	208.00	62.00
tblOffRoadEquipment	HorsePower	78.00	81.00
tblOffRoadEquipment	HorsePower	46.00	255.00
tblOffRoadEquipment	HorsePower	62.00	78.00
tblOffRoadEquipment	HorsePower	199.00	255.00
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.46	0.46
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.48	0.48
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.43	0.31

tblOffRoadEquipment	LoadFactor	0.34	0.34
tblOffRoadEquipment	LoadFactor	0.48	0.73
tblOffRoadEquipment	LoadFactor	0.45	0.40
tblOffRoadEquipment	LoadFactor	0.31	0.48
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pressure Washers
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Sweepers/Scrubbers
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Surfacing Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Welders
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	HaulingPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00



tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	VendorPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblOnRoadDust	WorkerPercentPave	50.00	100.00
tblProjectCharacteristics	OperationalYear	2014	2021
tblRoadDust	RoadPercentPave	50	100
tblSolidWaste	SolidWasteGenerationRate	33.57	0.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	WorkerTripNumber	53.00	48.00
tblVehicleTrips	ST_TR	1.32	1.20
tblVehicleTrips	SU_TR	0.68	1.20
tblVehicleTrips	WD_TR	6.97	1.20
tblWater	IndoorWaterUseRate	6,259,937.50	0.00

## 2.0 Emissions Summary

---

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	5.5471	54.4644	42.3989	0.0636	9.1837	2.8264	10.3674	5.0053	2.6623	6.0942	0.0000	6,242.5489	6,242.5489	1.3654	0.0000	6,271.2216
2019	5.4896	47.6226	43.7010	0.0778	3.4139	2.6236	5.0840	1.7562	2.5085	3.2930	0.0000	7,394.6435	7,394.6435	1.5120	0.0000	7,426.3960
2020	12.0005	43.8725	42.9809	0.0778	0.4206	2.3102	2.7308	0.1130	2.2076	2.3206	0.0000	7,292.8295	7,292.8295	1.4892	0.0000	7,324.1032
<b>Total</b>	<b>23.0372</b>	<b>145.9595</b>	<b>129.0808</b>	<b>0.2192</b>	<b>13.0183</b>	<b>7.7601</b>	<b>18.1822</b>	<b>6.8744</b>	<b>7.3784</b>	<b>11.7078</b>	<b>0.0000</b>	<b>20,930.0219</b>	<b>20,930.0219</b>	<b>4.3666</b>	<b>0.0000</b>	<b>21,021.7208</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	5.5471	47.7083	42.3989	0.0636	3.6735	2.8264	4.8572	1.9764	2.6623	3.0654	0.0000	6,242.5489	6,242.5489	1.3654	0.0000	6,271.2216
2019	5.4896	41.0746	43.7010	0.0778	1.5550	2.6236	3.2250	0.7441	2.5085	2.6215	0.0000	7,394.6435	7,394.6435	1.5120	0.0000	7,426.3960
2020	12.0005	37.8271	42.9809	0.0778	0.4206	2.3102	2.7308	0.1130	2.2076	2.3206	0.0000	7,292.8295	7,292.8295	1.4892	0.0000	7,324.1032
<b>Total</b>	<b>23.0372</b>	<b>126.6100</b>	<b>129.0808</b>	<b>0.2192</b>	<b>5.6492</b>	<b>7.7601</b>	<b>10.8130</b>	<b>2.8335</b>	<b>7.3784</b>	<b>8.0075</b>	<b>0.0000</b>	<b>20,930.0219</b>	<b>20,930.0219</b>	<b>4.3666</b>	<b>0.0000</b>	<b>21,021.7207</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	13.26	0.00	0.00	56.61	0.00	40.53	58.78	0.00	31.61	0.00	0.00	0.00	0.00	0.00	0.00

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6946	9.0000e-005	9.9500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0212	0.0212	6.0000e-005		0.0224
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1035	0.3260	1.3914	3.1100e-003	0.2169	6.3700e-003	0.2233	0.0579	5.8700e-003	0.0638		239.8827	239.8827	9.1000e-003		240.0739
<b>Total</b>	<b>2.7981</b>	<b>0.3261</b>	<b>1.4014</b>	<b>3.1100e-003</b>	<b>0.2169</b>	<b>6.4100e-003</b>	<b>0.2233</b>	<b>0.0579</b>	<b>5.9100e-003</b>	<b>0.0638</b>		<b>239.9040</b>	<b>239.9040</b>	<b>9.1600e-003</b>	<b>0.0000</b>	<b>240.0963</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6946	9.0000e-005	9.9500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0212	0.0212	6.0000e-005		0.0224
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1035	0.3260	1.3914	3.1100e-003	0.2169	6.3700e-003	0.2233	0.0579	5.8700e-003	0.0638		239.8827	239.8827	9.1000e-003		240.0739
<b>Total</b>	<b>2.7981</b>	<b>0.3261</b>	<b>1.4014</b>	<b>3.1100e-003</b>	<b>0.2169</b>	<b>6.4100e-003</b>	<b>0.2233</b>	<b>0.0579</b>	<b>5.9100e-003</b>	<b>0.0638</b>		<b>239.9040</b>	<b>239.9040</b>	<b>9.1600e-003</b>	<b>0.0000</b>	<b>240.0963</b>

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	3/9/2018	5	50	
2	Site Preparation	Site Preparation	3/10/2018	5/18/2018	5	50	
3	Grading	Grading	5/19/2018	7/12/2019	5	300	
4	Building Construction	Building Construction	7/13/2019	2/7/2020	5	150	
5	Paving	Paving	2/8/2020	6/26/2020	5	100	
6	Architectural Coating	Architectural Coating	6/27/2020	11/13/2020	5	100	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 145,608; Non-Residential Outdoor: 48,536 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Air Compressors	1	4.00	81	0.73
Demolition	Excavators	1	4.00	162	0.38
Demolition	Welders	1	4.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Grading	Plate Compactors	1	4.00	8	0.43

Grading	Rollers	1	4.00	80	0.38
Grading	Rubber Tired Loaders	1	4.00	199	0.36
Grading	Scrapers	1	4.00	361	0.48
Grading	Skid Steer Loaders	1	4.00	64	0.37
Paving	Plate Compactors	1	4.00	8	0.43
Paving	Surfacing Equipment	1	4.00	253	0.30
Site Preparation	Rubber Tired Dozers	3	4.00	255	0.40
Building Construction	Forklifts	3	8.00	89	0.20
Site Preparation	Tractors/Loaders/Backhoes	4	4.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Crawler Tractors	4	4.00	62	0.31
Grading	Excavators	1	4.00	162	0.38
Grading	Graders	1	4.00	174	0.41
Grading	Rubber Tired Dozers	1	4.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Paving	Concrete/Industrial Saws	1	4.00	81	0.73
Paving	Crawler Tractors	1	4.00	208	0.43
Paving	Forklifts	1	4.00	89	0.20
Paving	Generator Sets	1	4.00	84	0.74
Paving	Graders	1	4.00	174	0.41
Paving	Pavers	1	4.00	125	0.42
Paving	Paving Equipment	1	4.00	130	0.36
Paving	Rollers	1	4.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Paving	Welders	2	4.00	46	0.45
Building Construction	Aerial Lifts	6	4.00	62	0.31
Building Construction	Air Compressors	4	4.00	78	0.48

Building Construction	Bore/Drill Rigs	1	4.00	205	0.50
Building Construction	Cement and Mortar Mixers	2	4.00	9	0.56
Building Construction	Concrete/Industrial Saws	2	4.00	81	0.73
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Crushing/Proc. Equipment	1	4.00	85	0.78
Building Construction	Graders	1	4.00	174	0.41
Building Construction	Other General Industrial Equipment	1	4.00	87	0.34
Building Construction	Plate Compactors	1	4.00	8	0.43
Building Construction	Pressure Washers	1	4.00	13	0.30
Building Construction	Pumps	1	4.00	84	0.74
Building Construction	Rollers	1	4.00	80	0.38
Building Construction	Rough Terrain Forklifts	1	4.00	100	0.40
Building Construction	Rubber Tired Loaders	2	4.00	255	0.40
Building Construction	Skid Steer Loaders	1	4.00	64	0.37
Building Construction	Surfacing Equipment	1	4.00	253	0.30
Demolition	Concrete/Industrial Saws	2	4.00	81	0.73
Building Construction	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Building Construction	Welders	2	4.00	46	0.45
Architectural Coating	Aerial Lifts	3	4.00	78	0.48
Architectural Coating	Air Compressors	2	4.00	78	0.48
Architectural Coating	Forklifts	1	4.00	89	0.20
Architectural Coating	Generator Sets	1	4.00	84	0.74
Architectural Coating	Pressure Washers	1	4.00	13	0.30
Grading	Other General Industrial Equipment	2	4.00	87	0.34
Demolition	Crawler Tractors	2	4.00	208	0.43
Demolition	Forklifts	1	4.00	89	0.20
Demolition	Generator Sets	2	4.00	84	0.74
Demolition	Pressure Washers	2	4.00	13	0.30

Demolition	Rough Terrain Forklifts	1	4.00	100	0.40
Demolition	Skid Steer Loaders	2	4.00	64	0.37
Demolition	Sweepers/Scrubbers	2	4.00	64	0.46

**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
Demolition	21	48.00	0.00	1.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	16	40.00	0.00	194.00	11.00	5.40	30.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	8.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	14	35.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	36	41.00	16.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Oxidation Catalyst for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads



### 3.2 Demolition - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					4.4500e-003	0.0000	4.4500e-003	6.7000e-004	0.0000	6.7000e-004			0.0000				0.0000
Off-Road	5.3941	54.2126	40.3127	0.0593		2.8238	2.8238		2.6599	2.6599		5,915.7837	5,915.7837	1.3453			5,944.0354
<b>Total</b>	<b>5.3941</b>	<b>54.2126</b>	<b>40.3127</b>	<b>0.0593</b>	<b>4.4500e-003</b>	<b>2.8238</b>	<b>2.8282</b>	<b>6.7000e-004</b>	<b>2.6599</b>	<b>2.6606</b>		<b>5,915.7837</b>	<b>5,915.7837</b>	<b>1.3453</b>			<b>5,944.0354</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	lb/day										lb/day						
Hauling	3.3000e-004	3.9000e-003	5.1000e-003	1.0000e-005	3.5000e-004	1.0000e-004	4.5000e-004	1.0000e-004	9.0000e-005	1.8000e-004		1.3607	1.3607	1.0000e-005			1.3609
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1527	0.2479	2.0811	4.3300e-003	0.4016	2.5100e-003	0.4041	0.1065	2.3200e-003	0.1088		325.4045	325.4045	0.0200			325.8253
<b>Total</b>	<b>0.1530</b>	<b>0.2518</b>	<b>2.0862</b>	<b>4.3400e-003</b>	<b>0.4020</b>	<b>2.6100e-003</b>	<b>0.4046</b>	<b>0.1066</b>	<b>2.4100e-003</b>	<b>0.1090</b>		<b>326.7652</b>	<b>326.7652</b>	<b>0.0201</b>			<b>327.1862</b>

### 3.2 Demolition - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					1.7300e-003	0.0000	1.7300e-003	2.6000e-004	0.0000	2.6000e-004			0.0000				0.0000
Off-Road	5.3941	47.4565	40.3127	0.0593		2.8238	2.8238		2.6599	2.6599	0.0000	5,915.7837	5,915.7837	1.3453			5,944.0354
<b>Total</b>	<b>5.3941</b>	<b>47.4565</b>	<b>40.3127</b>	<b>0.0593</b>	<b>1.7300e-003</b>	<b>2.8238</b>	<b>2.8255</b>	<b>2.6000e-004</b>	<b>2.6599</b>	<b>2.6602</b>	<b>0.0000</b>	<b>5,915.7837</b>	<b>5,915.7837</b>	<b>1.3453</b>			<b>5,944.0354</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	lb/day										lb/day						
Hauling	3.3000e-004	3.9000e-003	5.1000e-003	1.0000e-005	3.5000e-004	1.0000e-004	4.5000e-004	1.0000e-004	9.0000e-005	1.8000e-004		1.3607	1.3607	1.0000e-005			1.3609
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1527	0.2479	2.0811	4.3300e-003	0.4016	2.5100e-003	0.4041	0.1065	2.3200e-003	0.1088		325.4045	325.4045	0.0200			325.8253
<b>Total</b>	<b>0.1530</b>	<b>0.2518</b>	<b>2.0862</b>	<b>4.3400e-003</b>	<b>0.4020</b>	<b>2.6100e-003</b>	<b>0.4046</b>	<b>0.1066</b>	<b>2.4100e-003</b>	<b>0.1090</b>		<b>326.7652</b>	<b>326.7652</b>	<b>0.0201</b>			<b>327.1862</b>

### 3.3 Site Preparation - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0331	0.0000	9.0331	4.9653	0.0000	4.9653			0.0000			0.0000
Off-Road	2.1461	22.8044	18.1173	0.0196		1.1827	1.1827		1.0881	1.0881		1,969.8866	1,969.8866	0.6133		1,982.7649
<b>Total</b>	<b>2.1461</b>	<b>22.8044</b>	<b>18.1173</b>	<b>0.0196</b>	<b>9.0331</b>	<b>1.1827</b>	<b>10.2158</b>	<b>4.9653</b>	<b>1.0881</b>	<b>6.0534</b>		<b>1,969.8866</b>	<b>1,969.8866</b>	<b>0.6133</b>		<b>1,982.7649</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0573	0.0930	0.7804	1.6200e-003	0.1506	9.4000e-004	0.1515	0.0400	8.7000e-004	0.0408		122.0267	122.0267	7.5200e-003		122.1845
<b>Total</b>	<b>0.0573</b>	<b>0.0930</b>	<b>0.7804</b>	<b>1.6200e-003</b>	<b>0.1506</b>	<b>9.4000e-004</b>	<b>0.1515</b>	<b>0.0400</b>	<b>8.7000e-004</b>	<b>0.0408</b>		<b>122.0267</b>	<b>122.0267</b>	<b>7.5200e-003</b>		<b>122.1845</b>

### 3.3 Site Preparation - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					3.5229	0.0000	3.5229	1.9365	0.0000	1.9365			0.0000				0.0000
Off-Road	2.1461	20.2785	18.1173	0.0196		1.1827	1.1827		1.0881	1.0881	0.0000	1,969.8866	1,969.8866	0.6133			1,982.7649
<b>Total</b>	<b>2.1461</b>	<b>20.2785</b>	<b>18.1173</b>	<b>0.0196</b>	<b>3.5229</b>	<b>1.1827</b>	<b>4.7056</b>	<b>1.9365</b>	<b>1.0881</b>	<b>3.0246</b>	<b>0.0000</b>	<b>1,969.8866</b>	<b>1,969.8866</b>	<b>0.6133</b>			<b>1,982.7649</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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0573	0.0930	0.7804	1.6200e-003	0.1506	9.4000e-004	0.1515	0.0400	8.7000e-004	0.0408		122.0267	122.0267	7.5200e-003			122.1845
<b>Total</b>	<b>0.0573</b>	<b>0.0930</b>	<b>0.7804</b>	<b>1.6200e-003</b>	<b>0.1506</b>	<b>9.4000e-004</b>	<b>0.1515</b>	<b>0.0400</b>	<b>8.7000e-004</b>	<b>0.0408</b>		<b>122.0267</b>	<b>122.0267</b>	<b>7.5200e-003</b>			<b>122.1845</b>

### 3.4 Grading - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0474	0.0000	3.0474	1.6591	0.0000	1.6591			0.0000			0.0000
Off-Road	3.1724	32.9648	22.6001	0.0323		1.8399	1.8399		1.6931	1.6931		3,244.6261	3,244.6261	1.0065		3,265.7630
<b>Total</b>	<b>3.1724</b>	<b>32.9648</b>	<b>22.6001</b>	<b>0.0323</b>	<b>3.0474</b>	<b>1.8399</b>	<b>4.8873</b>	<b>1.6591</b>	<b>1.6931</b>	<b>3.3522</b>		<b>3,244.6261</b>	<b>3,244.6261</b>	<b>1.0065</b>		<b>3,265.7630</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	lb/day										lb/day					
Hauling	0.0131	0.1828	0.1868	6.7000e-004	0.0281	4.6300e-003	0.0327	7.3700e-003	4.2600e-003	0.0116		65.4864	65.4864	3.5000e-004		65.4938
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1273	0.2066	1.7342	3.6100e-003	0.3347	2.0900e-003	0.3368	0.0888	1.9300e-003	0.0907		271.1704	271.1704	0.0167		271.5211
<b>Total</b>	<b>0.1404</b>	<b>0.3893</b>	<b>1.9210</b>	<b>4.2800e-003</b>	<b>0.3627</b>	<b>6.7200e-003</b>	<b>0.3694</b>	<b>0.0961</b>	<b>6.1900e-003</b>	<b>0.1023</b>		<b>336.6568</b>	<b>336.6568</b>	<b>0.0171</b>		<b>337.0149</b>

### 3.4 Grading - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1885	0.0000	1.1885	0.6470	0.0000	0.6470			0.0000			0.0000
Off-Road	3.1724	28.3183	22.6001	0.0323		1.8399	1.8399		1.6931	1.6931	0.0000	3,244.6261	3,244.6261	1.0065		3,265.7630
<b>Total</b>	<b>3.1724</b>	<b>28.3183</b>	<b>22.6001</b>	<b>0.0323</b>	<b>1.1885</b>	<b>1.8399</b>	<b>3.0284</b>	<b>0.6470</b>	<b>1.6931</b>	<b>2.3401</b>	<b>0.0000</b>	<b>3,244.6261</b>	<b>3,244.6261</b>	<b>1.0065</b>		<b>3,265.7630</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	lb/day										lb/day					
Hauling	0.0131	0.1828	0.1868	6.7000e-004	0.0281	4.6300e-003	0.0327	7.3700e-003	4.2600e-003	0.0116		65.4864	65.4864	3.5000e-004		65.4938
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1273	0.2066	1.7342	3.6100e-003	0.3347	2.0900e-003	0.3368	0.0888	1.9300e-003	0.0907		271.1704	271.1704	0.0167		271.5211
<b>Total</b>	<b>0.1404</b>	<b>0.3893</b>	<b>1.9210</b>	<b>4.2800e-003</b>	<b>0.3627</b>	<b>6.7200e-003</b>	<b>0.3694</b>	<b>0.0961</b>	<b>6.1900e-003</b>	<b>0.1023</b>		<b>336.6568</b>	<b>336.6568</b>	<b>0.0171</b>		<b>337.0149</b>

### 3.4 Grading - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					3.0474	0.0000	3.0474	1.6591	0.0000	1.6591			0.0000				0.0000
Off-Road	2.9358	30.2584	21.8573	0.0323		1.6634	1.6634		1.5307	1.5307		3,192.3175	3,192.3175	1.0064			3,213.4509
<b>Total</b>	<b>2.9358</b>	<b>30.2584</b>	<b>21.8573</b>	<b>0.0323</b>	<b>3.0474</b>	<b>1.6634</b>	<b>4.7109</b>	<b>1.6591</b>	<b>1.5307</b>	<b>3.1898</b>		<b>3,192.3175</b>	<b>3,192.3175</b>	<b>1.0064</b>			<b>3,213.4509</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	lb/day										lb/day						
Hauling	0.0126	0.1681	0.1826	6.7000e-004	0.0318	4.5200e-003	0.0364	8.3000e-003	4.1600e-003	0.0125		64.3792	64.3792	3.5000e-004			64.3866
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1167	0.1907	1.6005	3.6100e-003	0.3347	2.0900e-003	0.3368	0.0888	1.9400e-003	0.0907		260.9718	260.9718	0.0158			261.3033
<b>Total</b>	<b>0.1293</b>	<b>0.3587</b>	<b>1.7831</b>	<b>4.2800e-003</b>	<b>0.3665</b>	<b>6.6100e-003</b>	<b>0.3731</b>	<b>0.0971</b>	<b>6.1000e-003</b>	<b>0.1032</b>		<b>325.3510</b>	<b>325.3510</b>	<b>0.0161</b>			<b>325.6899</b>

### 3.4 Grading - 2019

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					1.1885	0.0000	1.1885	0.6470	0.0000	0.6470			0.0000				0.0000
Off-Road	2.9358	26.0015	21.8573	0.0323		1.6634	1.6634		1.5307	1.5307	0.0000	3,192.3175	3,192.3175	1.0064			3,213.4509
<b>Total</b>	<b>2.9358</b>	<b>26.0015</b>	<b>21.8573</b>	<b>0.0323</b>	<b>1.1885</b>	<b>1.6634</b>	<b>2.8519</b>	<b>0.6470</b>	<b>1.5307</b>	<b>2.1778</b>	<b>0.0000</b>	<b>3,192.3175</b>	<b>3,192.3175</b>	<b>1.0064</b>			<b>3,213.4509</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	lb/day										lb/day						
Hauling	0.0126	0.1681	0.1826	6.7000e-004	0.0318	4.5200e-003	0.0364	8.3000e-003	4.1600e-003	0.0125		64.3792	64.3792	3.5000e-004			64.3866
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.1167	0.1907	1.6005	3.6100e-003	0.3347	2.0900e-003	0.3368	0.0888	1.9400e-003	0.0907		260.9718	260.9718	0.0158			261.3033
<b>Total</b>	<b>0.1293</b>	<b>0.3587</b>	<b>1.7831</b>	<b>4.2800e-003</b>	<b>0.3665</b>	<b>6.6100e-003</b>	<b>0.3731</b>	<b>0.0971</b>	<b>6.1000e-003</b>	<b>0.1032</b>		<b>325.3510</b>	<b>325.3510</b>	<b>0.0161</b>			<b>325.6899</b>



### 3.5 Building Construction - 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	5.2377	46.5515	39.9471	0.0715		2.6034	2.6034		2.4899	2.4899		6,881.3369	6,881.3369	1.4942		6,912.7147
<b>Total</b>	<b>5.2377</b>	<b>46.5515</b>	<b>39.9471</b>	<b>0.0715</b>		<b>2.6034</b>	<b>2.6034</b>		<b>2.4899</b>	<b>2.4899</b>		<b>6,881.3369</b>	<b>6,881.3369</b>	<b>1.4942</b>		<b>6,912.7147</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	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	0.1322	0.8757	2.1134	2.5900e-003	0.0776	0.0181	0.0957	0.0220	0.0166	0.0386		245.8105	245.8105	1.6600e-003		245.8454
Worker	0.1196	0.1954	1.6405	3.7000e-003	0.3430	2.1500e-003	0.3452	0.0910	1.9900e-003	0.0930		267.4961	267.4961	0.0162		267.8358
<b>Total</b>	<b>0.2519</b>	<b>1.0711</b>	<b>3.7539</b>	<b>6.2900e-003</b>	<b>0.4207</b>	<b>0.0202</b>	<b>0.4409</b>	<b>0.1130</b>	<b>0.0186</b>	<b>0.1316</b>		<b>513.3066</b>	<b>513.3066</b>	<b>0.0178</b>		<b>513.6812</b>

### 3.5 Building Construction - 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	5.2377	40.0035	39.9471	0.0715		2.6034	2.6034		2.4899	2.4899	0.0000	6,881.3369	6,881.3369	1.4942		6,912.7147
<b>Total</b>	<b>5.2377</b>	<b>40.0035</b>	<b>39.9471</b>	<b>0.0715</b>		<b>2.6034</b>	<b>2.6034</b>		<b>2.4899</b>	<b>2.4899</b>	<b>0.0000</b>	<b>6,881.3369</b>	<b>6,881.3369</b>	<b>1.4942</b>		<b>6,912.7147</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	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	0.1322	0.8757	2.1134	2.5900e-003	0.0776	0.0181	0.0957	0.0220	0.0166	0.0386		245.8105	245.8105	1.6600e-003		245.8454
Worker	0.1196	0.1954	1.6405	3.7000e-003	0.3430	2.1500e-003	0.3452	0.0910	1.9900e-003	0.0930		267.4961	267.4961	0.0162		267.8358
<b>Total</b>	<b>0.2519</b>	<b>1.0711</b>	<b>3.7539</b>	<b>6.2900e-003</b>	<b>0.4207</b>	<b>0.0202</b>	<b>0.4409</b>	<b>0.1130</b>	<b>0.0186</b>	<b>0.1316</b>		<b>513.3066</b>	<b>513.3066</b>	<b>0.0178</b>		<b>513.6812</b>

### 3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	4.8036	42.9449	39.4770	0.0715		2.2918	2.2918		2.1907	2.1907		6,796.2450	6,796.2450	1.4722		6,827.1612
<b>Total</b>	<b>4.8036</b>	<b>42.9449</b>	<b>39.4770</b>	<b>0.0715</b>		<b>2.2918</b>	<b>2.2918</b>		<b>2.1907</b>	<b>2.1907</b>		<b>6,796.2450</b>	<b>6,796.2450</b>	<b>1.4722</b>		<b>6,827.1612</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	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	0.1129	0.7447	1.9726	2.5800e-003	0.0776	0.0162	0.0938	0.0220	0.0149	0.0369		239.9665	239.9665	1.6000e-003		240.0002
Worker	0.1116	0.1829	1.5313	3.7000e-003	0.3430	2.1500e-003	0.3452	0.0910	1.9900e-003	0.0930		256.6180	256.6180	0.0154		256.9418
<b>Total</b>	<b>0.2246</b>	<b>0.9277</b>	<b>3.5039</b>	<b>6.2800e-003</b>	<b>0.4206</b>	<b>0.0184</b>	<b>0.4390</b>	<b>0.1130</b>	<b>0.0169</b>	<b>0.1299</b>		<b>496.5846</b>	<b>496.5846</b>	<b>0.0170</b>		<b>496.9420</b>

### 3.5 Building Construction - 2020

#### 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	4.8036	36.8994	39.4770	0.0715		2.2918	2.2918		2.1907	2.1907	0.0000	6,796.2450	6,796.2450	1.4722		6,827.1612
<b>Total</b>	<b>4.8036</b>	<b>36.8994</b>	<b>39.4770</b>	<b>0.0715</b>		<b>2.2918</b>	<b>2.2918</b>		<b>2.1907</b>	<b>2.1907</b>	<b>0.0000</b>	<b>6,796.2450</b>	<b>6,796.2450</b>	<b>1.4722</b>		<b>6,827.1612</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	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	0.1129	0.7447	1.9726	2.5800e-003	0.0776	0.0162	0.0938	0.0220	0.0149	0.0369		239.9665	239.9665	1.6000e-003		240.0002
Worker	0.1116	0.1829	1.5313	3.7000e-003	0.3430	2.1500e-003	0.3452	0.0910	1.9900e-003	0.0930		256.6180	256.6180	0.0154		256.9418
<b>Total</b>	<b>0.2246</b>	<b>0.9277</b>	<b>3.5039</b>	<b>6.2800e-003</b>	<b>0.4206</b>	<b>0.0184</b>	<b>0.4390</b>	<b>0.1130</b>	<b>0.0169</b>	<b>0.1299</b>		<b>496.5846</b>	<b>496.5846</b>	<b>0.0170</b>		<b>496.9420</b>

### 3.6 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	lb/day										lb/day					
Off-Road	2.1227	19.6484	16.3466	0.0289		1.0317	1.0317		0.9723	0.9723		2,736.9765	2,736.9765	0.6847		2,751.3551
Paving	0.0422					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1649</b>	<b>19.6484</b>	<b>16.3466</b>	<b>0.0289</b>		<b>1.0317</b>	<b>1.0317</b>		<b>0.9723</b>	<b>0.9723</b>		<b>2,736.9765</b>	<b>2,736.9765</b>	<b>0.6847</b>		<b>2,751.3551</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0953	0.1562	1.3072	3.1500e-003	0.2928	1.8400e-003	0.2947	0.0777	1.7000e-003	0.0794		219.0642	219.0642	0.0132		219.3406
<b>Total</b>	<b>0.0953</b>	<b>0.1562</b>	<b>1.3072</b>	<b>3.1500e-003</b>	<b>0.2928</b>	<b>1.8400e-003</b>	<b>0.2947</b>	<b>0.0777</b>	<b>1.7000e-003</b>	<b>0.0794</b>		<b>219.0642</b>	<b>219.0642</b>	<b>0.0132</b>		<b>219.3406</b>

### 3.6 Paving - 2020

#### 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	2.1227	16.8019	16.3466	0.0289		1.0317	1.0317		0.9723	0.9723	0.0000	2,736.9765	2,736.9765	0.6847		2,751.3551
Paving	0.0422					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1649</b>	<b>16.8019</b>	<b>16.3466</b>	<b>0.0289</b>		<b>1.0317</b>	<b>1.0317</b>		<b>0.9723</b>	<b>0.9723</b>	<b>0.0000</b>	<b>2,736.9765</b>	<b>2,736.9765</b>	<b>0.6847</b>		<b>2,751.3551</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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0953	0.1562	1.3072	3.1500e-003	0.2928	1.8400e-003	0.2947	0.0777	1.7000e-003	0.0794		219.0642	219.0642	0.0132		219.3406
<b>Total</b>	<b>0.0953</b>	<b>0.1562</b>	<b>1.3072</b>	<b>3.1500e-003</b>	<b>0.2928</b>	<b>1.8400e-003</b>	<b>0.2947</b>	<b>0.0777</b>	<b>1.7000e-003</b>	<b>0.0794</b>		<b>219.0642</b>	<b>219.0642</b>	<b>0.0132</b>		<b>219.3406</b>

### 3.7 Architectural Coating - 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	lb/day										lb/day						
Archit. Coating	11.2482					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.7305	6.6393	8.1534	0.0131		0.3428	0.3428		0.3357	0.3357		1,247.9675	1,247.9675	0.2238			1,252.6666
<b>Total</b>	<b>11.9787</b>	<b>6.6393</b>	<b>8.1534</b>	<b>0.0131</b>		<b>0.3428</b>	<b>0.3428</b>		<b>0.3357</b>	<b>0.3357</b>		<b>1,247.9675</b>	<b>1,247.9675</b>	<b>0.2238</b>			<b>1,252.6666</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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0218	0.0357	0.2988	7.2000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		50.0718	50.0718	3.0100e-003			50.1350
<b>Total</b>	<b>0.0218</b>	<b>0.0357</b>	<b>0.2988</b>	<b>7.2000e-004</b>	<b>0.0669</b>	<b>4.2000e-004</b>	<b>0.0674</b>	<b>0.0178</b>	<b>3.9000e-004</b>	<b>0.0181</b>		<b>50.0718</b>	<b>50.0718</b>	<b>3.0100e-003</b>			<b>50.1350</b>

### 3.7 Architectural Coating - 2020

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	11.2482					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.7305	5.7443	8.1534	0.0131		0.3428	0.3428		0.3357	0.3357	0.0000	1,247.9675	1,247.9675	0.2238			1,252.6666
<b>Total</b>	<b>11.9787</b>	<b>5.7443</b>	<b>8.1534</b>	<b>0.0131</b>		<b>0.3428</b>	<b>0.3428</b>		<b>0.3357</b>	<b>0.3357</b>	<b>0.0000</b>	<b>1,247.9675</b>	<b>1,247.9675</b>	<b>0.2238</b>			<b>1,252.6666</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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0218	0.0357	0.2988	7.2000e-004	0.0669	4.2000e-004	0.0674	0.0178	3.9000e-004	0.0181		50.0718	50.0718	3.0100e-003			50.1350
<b>Total</b>	<b>0.0218</b>	<b>0.0357</b>	<b>0.2988</b>	<b>7.2000e-004</b>	<b>0.0669</b>	<b>4.2000e-004</b>	<b>0.0674</b>	<b>0.0178</b>	<b>3.9000e-004</b>	<b>0.0181</b>		<b>50.0718</b>	<b>50.0718</b>	<b>3.0100e-003</b>			<b>50.1350</b>

### 4.0 Operational Detail - Mobile



### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1035	0.3260	1.3914	3.1100e-003	0.2169	6.3700e-003	0.2233	0.0579	5.8700e-003	0.0638		239.8827	239.8827	9.1000e-003		240.0739
Unmitigated	0.1035	0.3260	1.3914	3.1100e-003	0.2169	6.3700e-003	0.2233	0.0579	5.8700e-003	0.0638		239.8827	239.8827	9.1000e-003		240.0739

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	32.49	32.49	32.49	102,067	102,067
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	32.49	32.49	32.49	102,067	102,067

### 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
General Light Industry	12.50	4.20	5.40	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	12.50	4.20	5.40	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.470072	0.065402	0.168902	0.158101	0.038677	0.006237	0.011529	0.071911	0.001380	0.001204	0.003651	0.000525	0.002410

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

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

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

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

### 5.2 Energy by Land Use - NaturalGas

#### Mitigated

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

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.6946	9.0000e-005	9.9500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0212	0.0212	6.0000e-005		0.0224
Unmitigated	2.6946	9.0000e-005	9.9500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0212	0.0212	6.0000e-005		0.0224

## 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	0.6163					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.3000e-004	9.0000e-005	9.9500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0212	0.0212	6.0000e-005		0.0224
<b>Total</b>	<b>2.6946</b>	<b>9.0000e-005</b>	<b>9.9500e-003</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0212</b>	<b>0.0212</b>	<b>6.0000e-005</b>		<b>0.0224</b>

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6163					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.3000e-004	9.0000e-005	9.9500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0212	0.0212	6.0000e-005		0.0224
<b>Total</b>	<b>2.6946</b>	<b>9.0000e-005</b>	<b>9.9500e-003</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0212</b>	<b>0.0212</b>	<b>6.0000e-005</b>		<b>0.0224</b>

## 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
----------------	--------	-----------	-----------	-------------	-------------	-----------

## 10.0 Vegetation

---