

**APPENDIX E**  
**Greenhouse Gas Emissions Data Sheets**

**PCCD SEC Construction  
San Diego Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.00	1000sqft	0.02	1,000.00	0
Other Asphalt Surfaces	47.00	1000sqft	1.08	46,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2017
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	720.49	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics -

Land Use -

Construction Phase - Based on information from PCCD

Grading - Conservative disturbance area estimate of 1.5 acres

Demolition -

Construction Off-road Equipment Mitigation -

Architectural Coating - Assume coating all four walls (32 L \* 15 H =480 SF each) and ceiling (1000 SF) outdoor, four walls (1920 SF) + Ceiling (1000) + floor indoor (1000)3

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	23,998.00	2,920.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	71,993.00	3,920.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	200.00	100.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	4.00	143.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	PhaseEndDate	11/25/2016	12/2/2016
tblConstructionPhase	PhaseEndDate	1/5/2017	6/24/2016
tblConstructionPhase	PhaseEndDate	7/1/2016	11/18/2016
tblConstructionPhase	PhaseEndDate	1/18/2016	2/1/2016
tblConstructionPhase	PhaseStartDate	11/19/2016	11/26/2016
tblConstructionPhase	PhaseStartDate	8/19/2016	2/6/2016
tblConstructionPhase	PhaseStartDate	6/25/2016	11/12/2016
tblConstructionPhase	PhaseStartDate	1/15/2016	1/29/2016
tblGrading	AcresOfGrading	53.63	1.50
tblGrading	MaterialExported	0.00	4,850.00
tblProjectCharacteristics	OperationalYear	2014	2017

## 2.0 Emissions Summary

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**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	0.2431	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-004
Energy	1.1000e-004	1.0300e-003	8.7000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	6.0211	6.0211	2.2000e-004	6.0000e-005	6.0447
Mobile	5.1000e-003	0.0112	0.0511	1.1000e-004	7.5000e-003	1.4000e-004	7.6400e-003	2.0100e-003	1.3000e-004	2.1300e-003	0.0000	8.3981	8.3981	3.6000e-004	0.0000	8.4056
Waste						0.0000	0.0000		0.0000	0.0000	0.1888	0.0000	0.1888	0.0112	0.0000	0.4231
Water						0.0000	0.0000		0.0000	0.0000	0.0564	1.1519	1.2082	5.8400e-003	1.5000e-004	1.3762
<b>Total</b>	<b>0.2483</b>	<b>0.0122</b>	<b>0.0524</b>	<b>1.2000e-004</b>	<b>7.5000e-003</b>	<b>2.2000e-004</b>	<b>7.7200e-003</b>	<b>2.0100e-003</b>	<b>2.1000e-004</b>	<b>2.2100e-003</b>	<b>0.2452</b>	<b>15.5719</b>	<b>15.8171</b>	<b>0.0176</b>	<b>2.1000e-004</b>	<b>16.2504</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	0.2431	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-004
Energy	1.1000e-004	1.0300e-003	8.7000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	6.0211	6.0211	2.2000e-004	6.0000e-005	6.0447
Mobile	5.1000e-003	0.0112	0.0511	1.1000e-004	7.5000e-003	1.4000e-004	7.6400e-003	2.0100e-003	1.3000e-004	2.1300e-003	0.0000	8.3981	8.3981	3.6000e-004	0.0000	8.4056
Waste						0.0000	0.0000		0.0000	0.0000	0.1888	0.0000	0.1888	0.0112	0.0000	0.4231
Water						0.0000	0.0000		0.0000	0.0000	0.0564	1.1519	1.2082	5.8400e-003	1.5000e-004	1.3761
<b>Total</b>	<b>0.2483</b>	<b>0.0122</b>	<b>0.0524</b>	<b>1.2000e-004</b>	<b>7.5000e-003</b>	<b>2.2000e-004</b>	<b>7.7200e-003</b>	<b>2.0100e-003</b>	<b>2.1000e-004</b>	<b>2.2100e-003</b>	<b>0.2452</b>	<b>15.5719</b>	<b>15.8171</b>	<b>0.0176</b>	<b>2.1000e-004</b>	<b>16.2504</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	1/1/2016	1/14/2016	5	10	
2	Site Preparation	Site Preparation	1/29/2016	2/1/2016	5	2	
3	Grading	Grading	2/2/2016	8/18/2016	5	143	
4	Building Construction	Building Construction	2/6/2016	6/24/2016	5	100	
5	Paving	Paving	11/12/2016	11/18/2016	5	5	
6	Architectural Coating	Architectural Coating	11/26/2016	12/2/2016	5	5	

**Acres of Grading (Site Preparation Phase): 1**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,920; Non-Residential Outdoor: 2,920 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	6.00	125	0.42
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
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
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
Grading	Graders	1	6.00	174	0.41
Paving	Paving Equipment	1	8.00	130	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Building Construction	Welders	3	8.00	46	0.45

**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	5.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	606.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	20.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

### 3.2 Demolition - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.0000e-004	0.0000	5.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1413	0.1075	1.2000e-004		8.7200e-003	8.7200e-003		8.1600e-003	8.1600e-003	0.0000	11.2814	11.2814	2.8500e-003	0.0000	11.3413
<b>Total</b>	<b>0.0145</b>	<b>0.1413</b>	<b>0.1075</b>	<b>1.2000e-004</b>	<b>5.0000e-004</b>	<b>8.7200e-003</b>	<b>9.2200e-003</b>	<b>8.0000e-005</b>	<b>8.1600e-003</b>	<b>8.2400e-003</b>	<b>0.0000</b>	<b>11.2814</b>	<b>11.2814</b>	<b>2.8500e-003</b>	<b>0.0000</b>	<b>11.3413</b>

### 3.2 Demolition - 2016

#### 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	5.0000e-005	7.3000e-004	6.0000e-004	0.0000	4.0000e-005	1.0000e-005	5.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1708	0.1708	0.0000	0.0000	0.1708
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	2.9000e-004	2.8100e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4858	0.4858	3.0000e-005	0.0000	0.4863
<b>Total</b>	<b>2.7000e-004</b>	<b>1.0200e-003</b>	<b>3.4100e-003</b>	<b>1.0000e-005</b>	<b>5.6000e-004</b>	<b>1.0000e-005</b>	<b>5.8000e-004</b>	<b>1.5000e-004</b>	<b>1.0000e-005</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.6565</b>	<b>0.6565</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6571</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2000e-004	0.0000	2.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1413	0.1075	1.2000e-004		8.7200e-003	8.7200e-003		8.1600e-003	8.1600e-003	0.0000	11.2814	11.2814	2.8500e-003	0.0000	11.3413
<b>Total</b>	<b>0.0145</b>	<b>0.1413</b>	<b>0.1075</b>	<b>1.2000e-004</b>	<b>2.2000e-004</b>	<b>8.7200e-003</b>	<b>8.9400e-003</b>	<b>3.0000e-005</b>	<b>8.1600e-003</b>	<b>8.1900e-003</b>	<b>0.0000</b>	<b>11.2814</b>	<b>11.2814</b>	<b>2.8500e-003</b>	<b>0.0000</b>	<b>11.3413</b>

**3.2 Demolition - 2016****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	5.0000e-005	7.3000e-004	6.0000e-004	0.0000	4.0000e-005	1.0000e-005	5.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1708	0.1708	0.0000	0.0000	0.1708
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	2.9000e-004	2.8100e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4858	0.4858	3.0000e-005	0.0000	0.4863
<b>Total</b>	<b>2.7000e-004</b>	<b>1.0200e-003</b>	<b>3.4100e-003</b>	<b>1.0000e-005</b>	<b>5.6000e-004</b>	<b>1.0000e-005</b>	<b>5.8000e-004</b>	<b>1.5000e-004</b>	<b>1.0000e-005</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.6565</b>	<b>0.6565</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6571</b>

**3.3 Site Preparation - 2016****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4400e-003	0.0258	0.0165	2.0000e-005		1.4000e-003	1.4000e-003		1.2900e-003	1.2900e-003	0.0000	1.6158	1.6158	4.9000e-004	0.0000	1.6260
<b>Total</b>	<b>2.4400e-003</b>	<b>0.0258</b>	<b>0.0165</b>	<b>2.0000e-005</b>	<b>5.8000e-003</b>	<b>1.4000e-003</b>	<b>7.2000e-003</b>	<b>2.9500e-003</b>	<b>1.2900e-003</b>	<b>4.2400e-003</b>	<b>0.0000</b>	<b>1.6158</b>	<b>1.6158</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.6260</b>

### 3.3 Site Preparation - 2016

#### 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	3.0000e-005	4.0000e-005	3.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0598	0.0598	0.0000	0.0000	0.0599
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0598</b>	<b>0.0598</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0599</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.6100e-003	0.0000	2.6100e-003	1.3300e-003	0.0000	1.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4400e-003	0.0258	0.0165	2.0000e-005		1.4000e-003	1.4000e-003		1.2900e-003	1.2900e-003	0.0000	1.6158	1.6158	4.9000e-004	0.0000	1.6260
<b>Total</b>	<b>2.4400e-003</b>	<b>0.0258</b>	<b>0.0165</b>	<b>2.0000e-005</b>	<b>2.6100e-003</b>	<b>1.4000e-003</b>	<b>4.0100e-003</b>	<b>1.3300e-003</b>	<b>1.2900e-003</b>	<b>2.6200e-003</b>	<b>0.0000</b>	<b>1.6158</b>	<b>1.6158</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.6260</b>

### 3.3 Site Preparation - 2016

#### 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	3.0000e-005	4.0000e-005	3.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0598	0.0598	0.0000	0.0000	0.0599
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0598</b>	<b>0.0598</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0599</b>

### 3.4 Grading - 2016

#### 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					0.3241	0.0000	0.3241	0.1777	0.0000	0.1777	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1423	1.5041	0.9774	1.0100e-003		0.0816	0.0816		0.0750	0.0750	0.0000	94.8857	94.8857	0.0286	0.0000	95.4867
<b>Total</b>	<b>0.1423</b>	<b>1.5041</b>	<b>0.9774</b>	<b>1.0100e-003</b>	<b>0.3241</b>	<b>0.0816</b>	<b>0.4056</b>	<b>0.1777</b>	<b>0.0750</b>	<b>0.2527</b>	<b>0.0000</b>	<b>94.8857</b>	<b>94.8857</b>	<b>0.0286</b>	<b>0.0000</b>	<b>95.4867</b>

### 3.4 Grading - 2016

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3400e-003	0.0880	0.0725	2.3000e-004	5.1700e-003	1.1600e-003	6.3300e-003	1.4200e-003	1.0700e-003	2.4900e-003	0.0000	20.6965	20.6965	1.5000e-004	0.0000	20.6996
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	1.9600e-003	2.5900e-003	0.0247	6.0000e-005	4.5900e-003	4.0000e-005	4.6200e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	4.2746	4.2746	2.3000e-004	0.0000	4.2794
<b>Total</b>	<b>8.3000e-003</b>	<b>0.0906</b>	<b>0.0972</b>	<b>2.9000e-004</b>	<b>9.7600e-003</b>	<b>1.2000e-003</b>	<b>0.0110</b>	<b>2.6400e-003</b>	<b>1.1000e-003</b>	<b>3.7400e-003</b>	<b>0.0000</b>	<b>24.9711</b>	<b>24.9711</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>24.9789</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					0.1458	0.0000	0.1458	0.0799	0.0000	0.0799	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1423	1.5041	0.9774	1.0100e-003		0.0816	0.0816		0.0750	0.0750	0.0000	94.8856	94.8856	0.0286	0.0000	95.4866
<b>Total</b>	<b>0.1423</b>	<b>1.5041</b>	<b>0.9774</b>	<b>1.0100e-003</b>	<b>0.1458</b>	<b>0.0816</b>	<b>0.2274</b>	<b>0.0799</b>	<b>0.0750</b>	<b>0.1550</b>	<b>0.0000</b>	<b>94.8856</b>	<b>94.8856</b>	<b>0.0286</b>	<b>0.0000</b>	<b>95.4866</b>

### 3.4 Grading - 2016

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.3400e-003	0.0880	0.0725	2.3000e-004	5.1700e-003	1.1600e-003	6.3300e-003	1.4200e-003	1.0700e-003	2.4900e-003	0.0000	20.6965	20.6965	1.5000e-004	0.0000	20.6996
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	1.9600e-003	2.5900e-003	0.0247	6.0000e-005	4.5900e-003	4.0000e-005	4.6200e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	4.2746	4.2746	2.3000e-004	0.0000	4.2794
<b>Total</b>	<b>8.3000e-003</b>	<b>0.0906</b>	<b>0.0972</b>	<b>2.9000e-004</b>	<b>9.7600e-003</b>	<b>1.2000e-003</b>	<b>0.0110</b>	<b>2.6400e-003</b>	<b>1.1000e-003</b>	<b>3.7400e-003</b>	<b>0.0000</b>	<b>24.9711</b>	<b>24.9711</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>24.9789</b>

### 3.5 Building Construction - 2016

#### 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	0.1646	1.0273	0.7354	1.1000e-003		0.0683	0.0683		0.0659	0.0659	0.0000	92.8478	92.8478	0.0204	0.0000	93.2763
<b>Total</b>	<b>0.1646</b>	<b>1.0273</b>	<b>0.7354</b>	<b>1.1000e-003</b>		<b>0.0683</b>	<b>0.0683</b>		<b>0.0659</b>	<b>0.0659</b>	<b>0.0000</b>	<b>92.8478</b>	<b>92.8478</b>	<b>0.0204</b>	<b>0.0000</b>	<b>93.2763</b>

### 3.5 Building Construction - 2016

#### 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	4.5500e-003	0.0391	0.0548	1.0000e-004	2.6000e-003	5.8000e-004	3.1800e-003	7.4000e-004	5.3000e-004	1.2700e-003	0.0000	8.6299	8.6299	7.0000e-005	0.0000	8.6313	
Worker	3.4300e-003	4.5300e-003	0.0432	1.0000e-004	8.0200e-003	6.0000e-005	8.0800e-003	2.1300e-003	6.0000e-005	2.1900e-003	0.0000	7.4731	7.4731	3.9000e-004	0.0000	7.4814	
<b>Total</b>	<b>7.9800e-003</b>	<b>0.0436</b>	<b>0.0979</b>	<b>2.0000e-004</b>	<b>0.0106</b>	<b>6.4000e-004</b>	<b>0.0113</b>	<b>2.8700e-003</b>	<b>5.9000e-004</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>16.1030</b>	<b>16.1030</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>16.1127</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	0.1646	1.0273	0.7354	1.1000e-003		0.0683	0.0683		0.0659	0.0659	0.0000	92.8477	92.8477	0.0204	0.0000	93.2762
<b>Total</b>	<b>0.1646</b>	<b>1.0273</b>	<b>0.7354</b>	<b>1.1000e-003</b>		<b>0.0683</b>	<b>0.0683</b>		<b>0.0659</b>	<b>0.0659</b>	<b>0.0000</b>	<b>92.8477</b>	<b>92.8477</b>	<b>0.0204</b>	<b>0.0000</b>	<b>93.2762</b>



**3.5 Building Construction - 2016****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5500e-003	0.0391	0.0548	1.0000e-004	2.6000e-003	5.8000e-004	3.1800e-003	7.4000e-004	5.3000e-004	1.2700e-003	0.0000	8.6299	8.6299	7.0000e-005	0.0000	8.6313
Worker	3.4300e-003	4.5300e-003	0.0432	1.0000e-004	8.0200e-003	6.0000e-005	8.0800e-003	2.1300e-003	6.0000e-005	2.1900e-003	0.0000	7.4731	7.4731	3.9000e-004	0.0000	7.4814
<b>Total</b>	<b>7.9800e-003</b>	<b>0.0436</b>	<b>0.0979</b>	<b>2.0000e-004</b>	<b>0.0106</b>	<b>6.4000e-004</b>	<b>0.0113</b>	<b>2.8700e-003</b>	<b>5.9000e-004</b>	<b>3.4600e-003</b>	<b>0.0000</b>	<b>16.1030</b>	<b>16.1030</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>16.1127</b>

**3.6 Paving - 2016****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2200e-003	0.0330	0.0227	3.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.1036	3.1036	9.2000e-004	0.0000	3.1229
Paving	1.4100e-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>4.6300e-003</b>	<b>0.0330</b>	<b>0.0227</b>	<b>3.0000e-005</b>		<b>2.0200e-003</b>	<b>2.0200e-003</b>		<b>1.8600e-003</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>3.1036</b>	<b>3.1036</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>3.1229</b>

### 3.6 Paving - 2016

#### 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	1.1000e-004	1.5000e-004	1.4000e-003	0.0000	2.6000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2429	0.2429	1.0000e-005	0.0000	0.2432
<b>Total</b>	<b>1.1000e-004</b>	<b>1.5000e-004</b>	<b>1.4000e-003</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2429</b>	<b>0.2429</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2432</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2200e-003	0.0330	0.0227	3.0000e-005		2.0200e-003	2.0200e-003		1.8600e-003	1.8600e-003	0.0000	3.1036	3.1036	9.2000e-004	0.0000	3.1229
Paving	1.4100e-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>4.6300e-003</b>	<b>0.0330</b>	<b>0.0227</b>	<b>3.0000e-005</b>		<b>2.0200e-003</b>	<b>2.0200e-003</b>		<b>1.8600e-003</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>3.1036</b>	<b>3.1036</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>3.1229</b>

### 3.6 Paving - 2016

#### 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	1.1000e-004	1.5000e-004	1.4000e-003	0.0000	2.6000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2429	0.2429	1.0000e-005	0.0000	0.2432
<b>Total</b>	<b>1.1000e-004</b>	<b>1.5000e-004</b>	<b>1.4000e-003</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2429</b>	<b>0.2429</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2432</b>

### 3.7 Architectural Coating - 2016

#### 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	0.0396					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2000e-004	5.9300e-003	4.7100e-003	1.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	0.6383	0.6383	8.0000e-005	0.0000	0.6399
<b>Total</b>	<b>0.0406</b>	<b>5.9300e-003</b>	<b>4.7100e-003</b>	<b>1.0000e-005</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.6399</b>

### 3.7 Architectural Coating - 2016

#### 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	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0000e-005	5.0000e-005	4.3000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0747	0.0747	0.0000	0.0000	0.0748	
<b>Total</b>	<b>3.0000e-005</b>	<b>5.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0747</b>	<b>0.0747</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0748</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	0.0396					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	9.2000e-004	5.9300e-003	4.7100e-003	1.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	0.6383	0.6383	8.0000e-005	0.0000	0.6399	
<b>Total</b>	<b>0.0406</b>	<b>5.9300e-003</b>	<b>4.7100e-003</b>	<b>1.0000e-005</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.6399</b>	

### 3.7 Architectural Coating - 2016

#### 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	3.0000e-005	5.0000e-005	4.3000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0747	0.0747	0.0000	0.0000	0.0748
<b>Total</b>	<b>3.0000e-005</b>	<b>5.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0747</b>	<b>0.0747</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0748</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	5.1000e-003	0.0112	0.0511	1.1000e-004	7.5000e-003	1.4000e-004	7.6400e-003	2.0100e-003	1.3000e-004	2.1300e-003	0.0000	8.3981	8.3981	3.6000e-004	0.0000	8.4056
Unmitigated	5.1000e-003	0.0112	0.0511	1.1000e-004	7.5000e-003	1.4000e-004	7.6400e-003	2.0100e-003	1.3000e-004	2.1300e-003	0.0000	8.3981	8.3981	3.6000e-004	0.0000	8.4056

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	11.01	2.37	0.98	19,937	19,937
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>11.01</b>	<b>2.37</b>	<b>0.98</b>	<b>19,937</b>	<b>19,937</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 Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510423	0.073380	0.192408	0.132453	0.036550	0.005219	0.012745	0.022253	0.001862	0.002079	0.006550	0.000609	0.003468

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.8989	4.8989	2.0000e-004	4.0000e-005	4.9157
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.8989	4.8989	2.0000e-004	4.0000e-005	4.9157
NaturalGas Mitigated	1.1000e-004	1.0300e-003	8.7000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1222	1.1222	2.0000e-005	2.0000e-005	1.1291
NaturalGas Unmitigated	1.1000e-004	1.0300e-003	8.7000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1222	1.1222	2.0000e-005	2.0000e-005	1.1291

**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	tons/yr										MT/yr					
General Office Building	21030	1.1000e-004	1.0300e-003	8.7000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1222	1.1222	2.0000e-005	2.0000e-005	1.1291
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>1.1000e-004</b>	<b>1.0300e-003</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.1222</b>	<b>1.1222</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.1291</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	tons/yr										MT/yr					
General Office Building	21030	1.1000e-004	1.0300e-003	8.7000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1222	1.1222	2.0000e-005	2.0000e-005	1.1291
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>1.1000e-004</b>	<b>1.0300e-003</b>	<b>8.7000e-004</b>	<b>1.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.1222</b>	<b>1.1222</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.1291</b>

## 5.3 Energy by Land Use - Electricity

### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	14990	4.8989	2.0000e-004	4.0000e-005	4.9157
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.8989</b>	<b>2.0000e-004</b>	<b>4.0000e-005</b>	<b>4.9157</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	0	0.0000	0.0000	0.0000	0.0000
General Office Building	14990	4.8989	2.0000e-004	4.0000e-005	4.9157
<b>Total</b>		<b>4.8989</b>	<b>2.0000e-004</b>	<b>4.0000e-005</b>	<b>4.9157</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	0.2431	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-004
Unmitigated	0.2431	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-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	0.0556					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1874					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-004
<b>Total</b>	<b>0.2431</b>	<b>0.0000</b>	<b>4.5000e-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>8.6000e-004</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.1000e-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	0.0556					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1874					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.1000e-004
<b>Total</b>	<b>0.2431</b>	<b>0.0000</b>	<b>4.5000e-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>8.6000e-004</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.1000e-004</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.2082	5.8400e-003	1.5000e-004	1.3761
Unmitigated	1.2082	5.8400e-003	1.5000e-004	1.3762

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.177734 / 0.108934	1.2082	5.8400e-003	1.5000e-004	1.3762
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.2082</b>	<b>5.8400e-003</b>	<b>1.5000e-004</b>	<b>1.3762</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.177734 / 0.108934	1.2082	5.8400e-003	1.5000e-004	1.3761
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.2082</b>	<b>5.8400e-003</b>	<b>1.5000e-004</b>	<b>1.3761</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1888	0.0112	0.0000	0.4231
Unmitigated	0.1888	0.0112	0.0000	0.4231

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.93	0.1888	0.0112	0.0000	0.4231
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1888</b>	<b>0.0112</b>	<b>0.0000</b>	<b>0.4231</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.93	0.1888	0.0112	0.0000	0.4231
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1888</b>	<b>0.0112</b>	<b>0.0000</b>	<b>0.4231</b>

## 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**PCCD SEC Operational  
San Diego Air Basin, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.00	1000sqft	0.02	1,000.00	0
Junior College (2Yr)	5,625.00	Student	5.64	110,000.00	0
Parking Lot	218.00	Space	1.96	87,200.00	0
Unenclosed Parking with Elevator	574.00	Space	5.17	229,600.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2017
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	720.49	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Land Use - From Project Description

Construction Phase -

Vehicle Trips - Consistent with traffic report

Landscape Equipment - Landscape working days

Energy Mitigation - Meet Title 24 Standards

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	0
tblLandscapeEquipment	NumberSummerDays	180	240
tblLandUse	LandUseSquareFeet	245,543.83	110,000.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	0.42	1.20
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	0.04	1.20
tblVehicleTrips	WD_TR	11.01	0.00

## 2.0 Emissions Summary

### 2.1 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	2.0762	7.6000e-004	0.0801	1.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	0.1529	0.1529	4.3000e-004	0.0000	0.1619
Energy	0.0207	0.1880	0.1579	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	792.4162	792.4162	0.0276	8.6500e-003	795.6759
Mobile	4.2080	9.5150	43.0282	0.0941	6.4461	0.1199	6.5660	1.7241	0.1103	1.8345	0.0000	7,206.2853	7,206.2853	0.3032	0.0000	7,212.6519
Waste						0.0000	0.0000		0.0000	0.0000	208.5712	0.0000	208.5712	12.3262	0.0000	467.4215
Water						0.0000	0.0000		0.0000	0.0000	3.8773	120.7986	124.6759	0.4030	0.0104	136.3616
<b>Total</b>	<b>6.3049</b>	<b>9.7038</b>	<b>43.2663</b>	<b>0.0952</b>	<b>6.4461</b>	<b>0.1345</b>	<b>6.5806</b>	<b>1.7241</b>	<b>0.1249</b>	<b>1.8491</b>	<b>212.4485</b>	<b>8,119.6530</b>	<b>8,332.1015</b>	<b>13.0604</b>	<b>0.0190</b>	<b>8,612.2726</b>

### 3.0 Operational Detail - 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	4.2080	9.5150	43.0282	0.0941	6.4461	0.1199	6.5660	1.7241	0.1103	1.8345	0.0000	7,206.2853	7,206.2853	0.3032	0.0000	7,212.6519
Unmitigated	4.2080	9.5150	43.0282	0.0941	6.4461	0.1199	6.5660	1.7241	0.1103	1.8345	0.0000	7,206.2853	7,206.2853	0.3032	0.0000	7,212.6519

### 3.1 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Junior College (2Yr)	6,750.00	6,750.00	6,750.00	17,141,875	17,141,875
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
<b>Total</b>	<b>6,750.00</b>	<b>6,750.00</b>	<b>6,750.00</b>	<b>17,141,875</b>	<b>17,141,875</b>

### 3.2 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 Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510423	0.073380	0.192408	0.132453	0.036550	0.005219	0.012745	0.022253	0.001862	0.002079	0.006550	0.000609	0.003468



## 4.0 Energy Detail

### 4.1 Mitigation Measures Energy

Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	587.7587	587.7587	0.0237	4.8900e-003	589.7729
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	599.6281	599.6281	0.0241	4.9900e-003	601.6829
Natural Gas Mitigated	0.0207	0.1880	0.1579	1.1300e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.6575	204.6575	3.9200e-003	3.7500e-003	205.9030
Natural Gas Unmitigated	0.0226	0.2058	0.1729	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	224.0069	224.0069	4.2900e-003	4.1100e-003	225.3701

### 4.2 Energy by Land Use - Natural Gas

#### Mitigated

	Natural Gas 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					
Parking Lot	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
Unenclosed Parking with Electric	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 Office Building	19347	1.0000e-004	9.5000e-004	8.0000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0324	1.0324	2.0000e-005	2.0000e-005	1.0387
Junior College (2Yr)	3.81579e+006	0.0206	0.1871	0.1571	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	203.6251	203.6251	3.9000e-003	3.7300e-003	204.8643
<b>Total</b>		<b>0.0207</b>	<b>0.1880</b>	<b>0.1579</b>	<b>1.1300e-003</b>		<b>0.0143</b>	<b>0.0143</b>		<b>0.0143</b>	<b>0.0143</b>	<b>0.0000</b>	<b>204.6575</b>	<b>204.6575</b>	<b>3.9200e-003</b>	<b>3.7500e-003</b>	<b>205.9030</b>

### 4.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	14421	4.7129	1.9000e-004	4.0000e-005	4.7291
Junior College (2Yr)	1.05985e+006	346.3683	0.0139	2.8800e-003	347.5552
Parking Lot	76736	25.0780	1.0100e-003	2.1000e-004	25.1639
Unenclosed Parking with Electricity	647472	211.5995	8.5200e-003	1.7600e-003	212.3246
<b>Total</b>		<b>587.7587</b>	<b>0.0237</b>	<b>4.8900e-003</b>	<b>589.7729</b>

### 5.0 Area Detail

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.0762	7.6000e-004	0.0801	1.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	0.1529	0.1529	4.3000e-004	0.0000	0.1619
Unmitigated	2.0762	7.6000e-004	0.0801	1.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	0.1529	0.1529	4.3000e-004	0.0000	0.1619

## 5.1 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3977					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6708					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.7300e-003	7.6000e-004	0.0801	1.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	0.1529	0.1529	4.3000e-004	0.0000	0.1619
<b>Total</b>	<b>2.0762</b>	<b>7.6000e-004</b>	<b>0.0801</b>	<b>1.0000e-005</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>		<b>2.9000e-004</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.1529</b>	<b>0.1529</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>0.1619</b>

## 6.0 Water Detail

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	124.6759	0.4030	0.0104	136.3616
Unmitigated	124.6759	0.4031	0.0104	136.3677

## 6.1 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.177734 / 0.108934	1.2082	5.8400e-003	1.5000e-004	1.3761
Junior College (2Yr)	12.0437 / 18.8376	123.4676	0.3972	0.0103	134.9854
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>124.6758</b>	<b>0.4030</b>	<b>0.0104</b>	<b>136.3615</b>

## 8.0 Waste Detail

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### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	208.5712	12.3262	0.0000	467.4215
Mitigated	208.5712	12.3262	0.0000	467.4215

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.93	0.1888	0.0112	0.0000	0.4231
Junior College (2Yr)	1026.56	208.3824	12.3151	0.0000	466.9984
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Electric	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>208.5712</b>	<b>12.3262</b>	<b>0.0000</b>	<b>467.4215</b>