

## **APPENDIX AQ:**

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### **Air Quality**

# APPENDIX A

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## Air Quality

**Criteria Pollutant Emissions.** CalEEMod (version 2013.2.2) was used to calculate construction and operational criteria pollutant emissions. In addition, EMFAC2011 and AP42 air emission equations were used to calculate bus and boiler emissions, respectively. Since The construction emissions in the operational CalEEMod runs were not used to estimate construction emissions as construction emissions were modeled in a separate CalEEMod run (see sub-section 1, below). The following sub-sections are included in this Appendix below:

1. CalEEMod Construction Outputs – Summer (pounds per day)
2. CalEEMod Operational Outputs– Summer (pounds per day)
3. CalEEMod Operational Outputs– Annual (tons per year)
4. Boiler Modeling Assumptions and Emissions
5. AAU Shuttle Bus Modeling Assumptions and Criteria Pollutant Emissions
6. Cumulative Year 2010 Outputs - Summer (pounds per day)
7. Cumulative Year 2010 Outputs - Annual (tons per year)
8. Cumulative Year 2016 Outputs - Summer (pounds per day)
9. Cumulative Year 2016 Outputs - Annual (tons per year)

**1. CalEEMod Construction Outputs – Summer (pounds per day)**

**AAU Past Renovation**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior High School	200.00	1000sqft	4.59	200,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Construction Phase - Assumed one month to renovate two 100,000 sq ft AAU buildings.

Off-road Equipment - Assumed construction equipment.

Off-road Equipment - Assumed construction equipment and durations. HP and LF were left as CalEEMod defaults.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	67.00
tblOffRoadEquipment	HorsePower	62.00	63.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Renovations
tblOffRoadEquipment	PhaseName		Renovations
tblOffRoadEquipment	PhaseName		Renovations
tblOffRoadEquipment	PhaseName		Renovations
tblOffRoadEquipment	PhaseName		Renovations
tblProjectCharacteristics	OperationalYear	2014	1990
tblTripsAndVMT	VendorTripNumber	0.00	33.00
tblTripsAndVMT	WorkerTripNumber	35.00	84.00

## 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	lb/day										lb/day					
Area	5.5586	2.4000e-004	0.0666	2.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0438	0.0438	8.3000e-004		0.0611
Energy	0.1019	0.9267	0.7784	5.5600e-003		0.0704	0.0704		0.0704	0.0704		1,112.0065	1,112.0065	0.0213	0.0204	1,118.7739
Mobile	89.4318	104.8707	996.2220	7.4923	11.9332	1.2877	13.2208	3.4426	1.2877	4.7303		20,765.3901	20,765.3901	6.0658		20,892.7711
<b>Total</b>	<b>95.0923</b>	<b>105.7976</b>	<b>997.0670</b>	<b>7.4978</b>	<b>11.9332</b>	<b>1.3583</b>	<b>13.2914</b>	<b>3.4426</b>	<b>1.3583</b>	<b>4.8009</b>		<b>21,877.4403</b>	<b>21,877.4403</b>	<b>6.0879</b>	<b>0.0204</b>	<b>22,011.6061</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	5.5586	2.4000e-004	0.0666	2.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0438	0.0438	8.3000e-004		0.0611
Energy	0.1019	0.9267	0.7784	5.5600e-003		0.0704	0.0704		0.0704	0.0704		1,112.0065	1,112.0065	0.0213	0.0204	1,118.7739
Mobile	89.4318	104.8707	996.2220	7.4923	11.9332	1.2877	13.2208	3.4426	1.2877	4.7303		20,765.3901	20,765.3901	6.0658		20,892.7711
<b>Total</b>	<b>95.0923</b>	<b>105.7976</b>	<b>997.0670</b>	<b>7.4978</b>	<b>11.9332</b>	<b>1.3583</b>	<b>13.2914</b>	<b>3.4426</b>	<b>1.3583</b>	<b>4.8009</b>		<b>21,877.4403</b>	<b>21,877.4403</b>	<b>6.0879</b>	<b>0.0204</b>	<b>22,011.6061</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	Renovations	Demolition	5/1/1990	8/1/1990	5	67	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Renovations	Aerial Lifts	2	4.00	63	0.31
Renovations	Generator Sets	2	4.00	84	0.74
Renovations	Pressure Washers	1	4.00	13	0.30
Renovations	Signal Boards	1	8.00	6	0.82
Renovations	Welders	2	4.00	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
Renovations	14	84.00	33.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT



### 3.1 Mitigation Measures Construction

### 3.2 Renovations - 1990

#### 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	4.3789	23.0397	10.7348	1.4932		1.9403	1.9403		1.9403	1.9403		1,095.1219	1,095.1219	0.3937		1,103.3904
<b>Total</b>	<b>4.3789</b>	<b>23.0397</b>	<b>10.7348</b>	<b>1.4932</b>		<b>1.9403</b>	<b>1.9403</b>		<b>1.9403</b>	<b>1.9403</b>		<b>1,095.1219</b>	<b>1,095.1219</b>	<b>0.3937</b>		<b>1,103.3904</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	2.6309	8.8696	52.3240	0.8241	0.1791	0.3549	0.5340	0.0589	0.3549	0.4138		595.9157	595.9157	0.1964		600.0404
Worker	3.7155	4.8404	55.9220	0.2170	0.7360	0.0361	0.7721	0.2165	0.0361	0.2526		1,146.6491	1,146.6491	0.3440		1,153.8738
<b>Total</b>	<b>6.3463</b>	<b>13.7100</b>	<b>108.2461</b>	<b>1.0411</b>	<b>0.9151</b>	<b>0.3910</b>	<b>1.3061</b>	<b>0.2754</b>	<b>0.3910</b>	<b>0.6664</b>		<b>1,742.5648</b>	<b>1,742.5648</b>	<b>0.5404</b>		<b>1,753.9142</b>

### 3.2 Renovations - 1990

#### 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	4.3789	23.0397	10.7348	1.4932		1.9403	1.9403		1.9403	1.9403	0.0000	1,095.1219	1,095.1219	0.3937		1,103.3904
<b>Total</b>	<b>4.3789</b>	<b>23.0397</b>	<b>10.7348</b>	<b>1.4932</b>		<b>1.9403</b>	<b>1.9403</b>		<b>1.9403</b>	<b>1.9403</b>	<b>0.0000</b>	<b>1,095.1219</b>	<b>1,095.1219</b>	<b>0.3937</b>		<b>1,103.3904</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	2.6309	8.8696	52.3240	0.8241	0.1791	0.3549	0.5340	0.0589	0.3549	0.4138		595.9157	595.9157	0.1964		600.0404
Worker	3.7155	4.8404	55.9220	0.2170	0.7360	0.0361	0.7721	0.2165	0.0361	0.2526		1,146.6491	1,146.6491	0.3440		1,153.8738
<b>Total</b>	<b>6.3463</b>	<b>13.7100</b>	<b>108.2461</b>	<b>1.0411</b>	<b>0.9151</b>	<b>0.3910</b>	<b>1.3061</b>	<b>0.2754</b>	<b>0.3910</b>	<b>0.6664</b>		<b>1,742.5648</b>	<b>1,742.5648</b>	<b>0.5404</b>		<b>1,753.9142</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	89.4318	104.8707	996.2220	7.4923	11.9332	1.2877	13.2208	3.4426	1.2877	4.7303		20,765.3901	20,765.3901	6.0658		20,892.7711
Unmitigated	89.4318	104.8707	996.2220	7.4923	11.9332	1.2877	13.2208	3.4426	1.2877	4.7303		20,765.3901	20,765.3901	6.0658		20,892.7711

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior High School	2,756.00	0.00	0.00	4,425,731	4,425,731
Total	2,756.00	0.00	0.00	4,425,731	4,425,731

### 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
Junior High School	9.50	7.30	7.30	72.80	22.20	5.00	63	25	12

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1019	0.9267	0.7784	5.5600e-003		0.0704	0.0704		0.0704	0.0704		1,112.0065	1,112.0065	0.0213	0.0204	1,118.7739
NaturalGas Unmitigated	0.1019	0.9267	0.7784	5.5600e-003		0.0704	0.0704		0.0704	0.0704		1,112.0065	1,112.0065	0.0213	0.0204	1,118.7739

### 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					
Junior High School	9452.05	0.1019	0.9267	0.7784	5.5600e-003		0.0704	0.0704		0.0704	0.0704		1,112.0065	1,112.0065	0.0213	0.0204	1,118.7739
<b>Total</b>		<b>0.1019</b>	<b>0.9267</b>	<b>0.7784</b>	<b>5.5600e-003</b>		<b>0.0704</b>	<b>0.0704</b>		<b>0.0704</b>	<b>0.0704</b>		<b>1,112.0065</b>	<b>1,112.0065</b>	<b>0.0213</b>	<b>0.0204</b>	<b>1,118.7739</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					
Junior High School	9.45205	0.1019	0.9267	0.7784	5.5600e-003		0.0704	0.0704		0.0704	0.0704		1,112.0065	1,112.0065	0.0213	0.0204	1,118.7739
<b>Total</b>		<b>0.1019</b>	<b>0.9267</b>	<b>0.7784</b>	<b>5.5600e-003</b>		<b>0.0704</b>	<b>0.0704</b>		<b>0.0704</b>	<b>0.0704</b>		<b>1,112.0065</b>	<b>1,112.0065</b>	<b>0.0213</b>	<b>0.0204</b>	<b>1,118.7739</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	5.5586	2.4000e-004	0.0666	2.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0438	0.0438	8.3000e-004		0.0611
Unmitigated	5.5586	2.4000e-004	0.0666	2.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0438	0.0438	8.3000e-004		0.0611

### 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					
Consumer Products	4.2800					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.7600e-003	2.4000e-004	0.0666	2.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0438	0.0438	8.3000e-004		0.0611
Architectural Coating	1.2699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>5.5586</b>	<b>2.4000e-004</b>	<b>0.0666</b>	<b>2.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>0.0438</b>	<b>0.0438</b>	<b>8.3000e-004</b>		<b>0.0611</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					
Consumer Products	4.2800					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.7600e-003	2.4000e-004	0.0666	2.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0438	0.0438	8.3000e-004		0.0611
Architectural Coating	1.2699					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>5.5586</b>	<b>2.4000e-004</b>	<b>0.0666</b>	<b>2.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>0.0438</b>	<b>0.0438</b>	<b>8.3000e-004</b>		<b>0.0611</b>

### 7.0 Water Detail

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**2. CalEEMod Operational Outputs– Summer (pounds per day)**



**AAU Existing Site 1**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	44.53	1000sqft	1.02	44,530.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study, there are 7.41 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	1990
tblVehicleTrips	ST_TR	11.23	7.41
tblVehicleTrips	SU_TR	1.21	7.41
tblVehicleTrips	WD_TR	27.49	7.41

## 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	lb/day										lb/day					
Area	1.2376	5.0000e-005	0.0148	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		9.7500e-003	9.7500e-003	1.8000e-004		0.0136
Energy	0.0357	0.3247	0.2728	1.9500e-003		0.0247	0.0247		0.0247	0.0247		389.6824	389.6824	7.4700e-003	7.1400e-003	392.0539
Mobile	11.3523	14.0919	132.8126	1.0112	1.6139	0.1736	1.7875	0.4656	0.1736	0.6392		2,798.9231	2,798.9231	0.8064		2,815.8580
<b>Total</b>	<b>12.6257</b>	<b>14.4166</b>	<b>133.1002</b>	<b>1.0131</b>	<b>1.6139</b>	<b>0.1984</b>	<b>1.8122</b>	<b>0.4656</b>	<b>0.1984</b>	<b>0.6640</b>		<b>3,188.6152</b>	<b>3,188.6152</b>	<b>0.8141</b>	<b>7.1400e-003</b>	<b>3,207.9255</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	1.2376	5.0000e-005	0.0148	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		9.7500e-003	9.7500e-003	1.8000e-004		0.0136
Energy	0.0357	0.3247	0.2728	1.9500e-003		0.0247	0.0247		0.0247	0.0247		389.6824	389.6824	7.4700e-003	7.1400e-003	392.0539
Mobile	11.3523	14.0919	132.8126	1.0112	1.6139	0.1736	1.7875	0.4656	0.1736	0.6392		2,798.9231	2,798.9231	0.8064		2,815.8580
<b>Total</b>	<b>12.6257</b>	<b>14.4166</b>	<b>133.1002</b>	<b>1.0131</b>	<b>1.6139</b>	<b>0.1984</b>	<b>1.8122</b>	<b>0.4656</b>	<b>0.1984</b>	<b>0.6640</b>		<b>3,188.6152</b>	<b>3,188.6152</b>	<b>0.8141</b>	<b>7.1400e-003</b>	<b>3,207.9255</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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/1/2016	5	2	
3	Grading	Grading	2/2/2016	2/5/2016	5	4	
4	Building Construction	Building Construction	2/6/2016	11/11/2016	5	200	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

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: 66,795; Non-Residential Outdoor: 22,265 (Architectural Coating – sqft)

#### OffRoad Equipment

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

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	19.00	7.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328		2,487.1296	2,487.1296	0.6288		2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>		<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>		<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328	0.0000	2,487.1296	2,487.1296	0.6288			2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>	<b>0.0000</b>	<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>			<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</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	lb/day										lb/day						
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000				0.0000
Off-Road	2.4428	25.7718	16.5144	0.0171		1.3985	1.3985		1.2866	1.2866		1,781.087 2	1,781.087 2	0.5372			1,792.369 3
<b>Total</b>	<b>2.4428</b>	<b>25.7718</b>	<b>16.5144</b>	<b>0.0171</b>	<b>5.7996</b>	<b>1.3985</b>	<b>7.1981</b>	<b>2.9537</b>	<b>1.2866</b>	<b>4.2403</b>		<b>1,781.087 2</b>	<b>1,781.087 2</b>	<b>0.5372</b>			<b>1,792.369 3</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000	
Off-Road	2.4428	25.7718	16.5144	0.0171		1.3985	1.3985		1.2866	1.2866	0.0000	1,781.087 2	1,781.087 2	0.5372			1,792.369 3
<b>Total</b>	<b>2.4428</b>	<b>25.7718</b>	<b>16.5144</b>	<b>0.0171</b>	<b>5.7996</b>	<b>1.3985</b>	<b>7.1981</b>	<b>2.9537</b>	<b>1.2866</b>	<b>4.2403</b>	<b>0.0000</b>	<b>1,781.087 2</b>	<b>1,781.087 2</b>	<b>0.5372</b>			<b>1,792.369 3</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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	lb/day										lb/day						
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000	
Off-Road	1.9908	21.0361	13.6704	0.0141		1.1407	1.1407		1.0494	1.0494		1,462.8468	1,462.8468	0.4413			1,472.1130
<b>Total</b>	<b>1.9908</b>	<b>21.0361</b>	<b>13.6704</b>	<b>0.0141</b>	<b>4.9143</b>	<b>1.1407</b>	<b>6.0549</b>	<b>2.5256</b>	<b>1.0494</b>	<b>3.5750</b>		<b>1,462.8468</b>	<b>1,462.8468</b>	<b>0.4413</b>			<b>1,472.1130</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000	
Off-Road	1.9908	21.0361	13.6704	0.0141		1.1407	1.1407		1.0494	1.0494	0.0000	1,462.8468	1,462.8468	0.4413			1,472.1130
<b>Total</b>	<b>1.9908</b>	<b>21.0361</b>	<b>13.6704</b>	<b>0.0141</b>	<b>4.9143</b>	<b>1.1407</b>	<b>6.0549</b>	<b>2.5256</b>	<b>1.0494</b>	<b>3.5750</b>	<b>0.0000</b>	<b>1,462.8468</b>	<b>1,462.8468</b>	<b>0.4413</b>			<b>1,472.1130</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003		84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>		<b>84.6675</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	lb/day										lb/day					
Off-Road	3.2915	20.5459	14.7074	0.0220		1.3656	1.3656		1.3176	1.3176		2,046.9432	2,046.9432	0.4499		2,056.3913
<b>Total</b>	<b>3.2915</b>	<b>20.5459</b>	<b>14.7074</b>	<b>0.0220</b>		<b>1.3656</b>	<b>1.3656</b>		<b>1.3176</b>	<b>1.3176</b>		<b>2,046.9432</b>	<b>2,046.9432</b>	<b>0.4499</b>		<b>2,056.3913</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	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	0.0880	0.6637	1.0602	1.6100e-003	0.0462	9.9100e-003	0.0561	0.0132	9.1100e-003	0.0223		160.8656	160.8656	1.2600e-003			160.8920
Worker	0.0706	0.0819	0.9863	2.3900e-003	0.1792	1.5800e-003	0.1808	0.0475	1.4500e-003	0.0490		200.8746	200.8746	0.0100			201.0853
<b>Total</b>	<b>0.1586</b>	<b>0.7455</b>	<b>2.0465</b>	<b>4.0000e-003</b>	<b>0.2254</b>	<b>0.0115</b>	<b>0.2369</b>	<b>0.0607</b>	<b>0.0106</b>	<b>0.0713</b>		<b>361.7401</b>	<b>361.7401</b>	<b>0.0113</b>			<b>361.9772</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	3.2915	20.5459	14.7074	0.0220		1.3656	1.3656		1.3176	1.3176	0.0000	2,046.9432	2,046.9432	0.4499			2,056.3913
<b>Total</b>	<b>3.2915</b>	<b>20.5459</b>	<b>14.7074</b>	<b>0.0220</b>		<b>1.3656</b>	<b>1.3656</b>		<b>1.3176</b>	<b>1.3176</b>	<b>0.0000</b>	<b>2,046.9432</b>	<b>2,046.9432</b>	<b>0.4499</b>			<b>2,056.3913</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	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	0.0880	0.6637	1.0602	1.6100e-003	0.0462	9.9100e-003	0.0561	0.0132	9.1100e-003	0.0223		160.8656	160.8656	1.2600e-003			160.8920
Worker	0.0706	0.0819	0.9863	2.3900e-003	0.1792	1.5800e-003	0.1808	0.0475	1.4500e-003	0.0490		200.8746	200.8746	0.0100			201.0853
<b>Total</b>	<b>0.1586</b>	<b>0.7455</b>	<b>2.0465</b>	<b>4.0000e-003</b>	<b>0.2254</b>	<b>0.0115</b>	<b>0.2369</b>	<b>0.0607</b>	<b>0.0106</b>	<b>0.0713</b>		<b>361.7401</b>	<b>361.7401</b>	<b>0.0113</b>			<b>361.9772</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	lb/day										lb/day						
Off-Road	1.2872	13.2076	9.0880	0.0133		0.8075	0.8075		0.7438	0.7438		1,368.4366	1,368.4366	0.4053			1,376.9473
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.2872</b>	<b>13.2076</b>	<b>9.0880</b>	<b>0.0133</b>		<b>0.8075</b>	<b>0.8075</b>		<b>0.7438</b>	<b>0.7438</b>		<b>1,368.4366</b>	<b>1,368.4366</b>	<b>0.4053</b>			<b>1,376.9473</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</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	1.2872	13.2076	9.0880	0.0133		0.8075	0.8075		0.7438	0.7438	0.0000	1,368.4366	1,368.4366	0.4053			1,376.9473
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.2872</b>	<b>13.2076</b>	<b>9.0880</b>	<b>0.0133</b>		<b>0.8075</b>	<b>0.8075</b>		<b>0.7438</b>	<b>0.7438</b>	<b>0.0000</b>	<b>1,368.4366</b>	<b>1,368.4366</b>	<b>0.4053</b>			<b>1,376.9473</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003		137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>		<b>137.5847</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	lb/day										lb/day					
Archit. Coating	103.1983					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>103.5667</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	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	0.0149	0.0172	0.2076	5.0000e-004	0.0377	3.3000e-004	0.0381	0.0100	3.1000e-004	0.0103		42.2894	42.2894	2.1100e-003			42.3337
<b>Total</b>	<b>0.0149</b>	<b>0.0172</b>	<b>0.2076</b>	<b>5.0000e-004</b>	<b>0.0377</b>	<b>3.3000e-004</b>	<b>0.0381</b>	<b>0.0100</b>	<b>3.1000e-004</b>	<b>0.0103</b>		<b>42.2894</b>	<b>42.2894</b>	<b>2.1100e-003</b>			<b>42.3337</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						
Archit. Coating	103.1983					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332			282.1449
<b>Total</b>	<b>103.5667</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>			<b>282.1449</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	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	0.0149	0.0172	0.2076	5.0000e-004	0.0377	3.3000e-004	0.0381	0.0100	3.1000e-004	0.0103		42.2894	42.2894	2.1100e-003		42.3337
<b>Total</b>	<b>0.0149</b>	<b>0.0172</b>	<b>0.2076</b>	<b>5.0000e-004</b>	<b>0.0377</b>	<b>3.3000e-004</b>	<b>0.0381</b>	<b>0.0100</b>	<b>3.1000e-004</b>	<b>0.0103</b>		<b>42.2894</b>	<b>42.2894</b>	<b>2.1100e-003</b>		<b>42.3337</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	11.3523	14.0919	132.8126	1.0112	1.6139	0.1736	1.7875	0.4656	0.1736	0.6392		2,798.9231	2,798.9231	0.8064		2,815.8580
Unmitigated	11.3523	14.0919	132.8126	1.0112	1.6139	0.1736	1.7875	0.4656	0.1736	0.6392		2,798.9231	2,798.9231	0.8064		2,815.8580

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	329.97	329.97	329.97	837,964	837,964
<b>Total</b>	<b>329.97</b>	<b>329.97</b>	<b>329.97</b>	<b>837,964</b>	<b>837,964</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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 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	0.0357	0.3247	0.2728	1.9500e-003		0.0247	0.0247		0.0247	0.0247		389.6824	389.6824	7.4700e-003	7.1400e-003	392.0539
NaturalGas Unmitigated	0.0357	0.3247	0.2728	1.9500e-003		0.0247	0.0247		0.0247	0.0247		389.6824	389.6824	7.4700e-003	7.1400e-003	392.0539

### 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					
Junior College (2Yr)	3312.3	0.0357	0.3247	0.2728	1.9500e-003		0.0247	0.0247		0.0247	0.0247		389.6824	389.6824	7.4700e-003	7.1400e-003	392.0539
<b>Total</b>		<b>0.0357</b>	<b>0.3247</b>	<b>0.2728</b>	<b>1.9500e-003</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0247</b>	<b>0.0247</b>		<b>389.6824</b>	<b>389.6824</b>	<b>7.4700e-003</b>	<b>7.1400e-003</b>	<b>392.0539</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					
Junior College (2Yr)	3.3123	0.0357	0.3247	0.2728	1.9500e-003		0.0247	0.0247		0.0247	0.0247		389.6824	389.6824	7.4700e-003	7.1400e-003	392.0539
<b>Total</b>		<b>0.0357</b>	<b>0.3247</b>	<b>0.2728</b>	<b>1.9500e-003</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0247</b>	<b>0.0247</b>		<b>389.6824</b>	<b>389.6824</b>	<b>7.4700e-003</b>	<b>7.1400e-003</b>	<b>392.0539</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	1.2376	5.0000e-005	0.0148	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		9.7500e-003	9.7500e-003	1.8000e-004		0.0136
Unmitigated	1.2376	5.0000e-005	0.0148	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		9.7500e-003	9.7500e-003	1.8000e-004		0.0136

## 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	0.2827					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9500e-003	5.0000e-005	0.0148	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		9.7500e-003	9.7500e-003	1.8000e-004		0.0136
<b>Total</b>	<b>1.2376</b>	<b>5.0000e-005</b>	<b>0.0148</b>	<b>1.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>9.7500e-003</b>	<b>9.7500e-003</b>	<b>1.8000e-004</b>		<b>0.0136</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	lb/day										lb/day					
Architectural Coating	0.2827					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9500e-003	5.0000e-005	0.0148	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		9.7500e-003	9.7500e-003	1.8000e-004		0.0136
<b>Total</b>	<b>1.2376</b>	<b>5.0000e-005</b>	<b>0.0148</b>	<b>1.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>9.7500e-003</b>	<b>9.7500e-003</b>	<b>1.8000e-004</b>		<b>0.0136</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 2**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	20.00	1000sqft	0.46	20,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2000
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.5 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - adjust for 2013 Title 24 Energy Intensity



Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2000
tblVehicleTrips	ST_TR	11.23	7.50
tblVehicleTrips	SU_TR	1.21	7.50
tblVehicleTrips	WD_TR	27.49	7.50

## 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	lb/day										lb/day					
Area	0.5555	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	3.0000e-005		5.0000e-003
Energy	0.0160	0.1459	0.1225	8.8000e-004		0.0111	0.0111		0.0111	0.0111		175.0202	175.0202	3.3500e-003	3.2100e-003	176.0853
Mobile	2.4405	4.0661	26.2074	0.0312	0.7336	0.0622	0.7958	0.2116	0.0622	0.2738		1,332.4763	1,332.4763	0.2043		1,336.7673
<b>Total</b>	<b>3.0121</b>	<b>4.2120</b>	<b>26.3335</b>	<b>0.0321</b>	<b>0.7336</b>	<b>0.0733</b>	<b>0.8069</b>	<b>0.2116</b>	<b>0.0733</b>	<b>0.2849</b>		<b>1,507.5008</b>	<b>1,507.5008</b>	<b>0.2077</b>	<b>3.2100e-003</b>	<b>1,512.8576</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	0.5555	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	3.0000e-005		5.0000e-003
Energy	0.0160	0.1459	0.1225	8.8000e-004		0.0111	0.0111		0.0111	0.0111		175.0202	175.0202	3.3500e-003	3.2100e-003	176.0853
Mobile	2.4405	4.0661	26.2074	0.0312	0.7336	0.0622	0.7958	0.2116	0.0622	0.2738		1,332.4763	1,332.4763	0.2043		1,336.7673
<b>Total</b>	<b>3.0121</b>	<b>4.2120</b>	<b>26.3335</b>	<b>0.0321</b>	<b>0.7336</b>	<b>0.0733</b>	<b>0.8069</b>	<b>0.2116</b>	<b>0.0733</b>	<b>0.2849</b>		<b>1,507.5008</b>	<b>1,507.5008</b>	<b>0.2077</b>	<b>3.2100e-003</b>	<b>1,512.8576</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 30,000; Non-Residential Outdoor: 10,000 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	8.00	3.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

**3.2 Demolition - 2016****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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>		<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>



### 3.3 Site Preparation - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>	<b>0.0000</b>	<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.4 Grading - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>		<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0377	0.2844	0.4544	6.9000e-004	0.0198	4.2500e-003	0.0241	5.6500e-003	3.9000e-003	9.5500e-003		68.9424	68.9424	5.4000e-004		68.9537
Worker	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003		84.6675
<b>Total</b>	<b>0.0675</b>	<b>0.3189</b>	<b>0.8697</b>	<b>1.7000e-003</b>	<b>0.0953</b>	<b>4.9100e-003</b>	<b>0.1002</b>	<b>0.0257</b>	<b>4.5100e-003</b>	<b>0.0302</b>		<b>153.5212</b>	<b>153.5212</b>	<b>4.7600e-003</b>		<b>153.6212</b>

### 3.5 Building Construction - 2016

#### 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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>	<b>0.0000</b>	<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0377	0.2844	0.4544	6.9000e-004	0.0198	4.2500e-003	0.0241	5.6500e-003	3.9000e-003	9.5500e-003		68.9424	68.9424	5.4000e-004		68.9537
Worker	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003		84.6675
<b>Total</b>	<b>0.0675</b>	<b>0.3189</b>	<b>0.8697</b>	<b>1.7000e-003</b>	<b>0.0953</b>	<b>4.9100e-003</b>	<b>0.1002</b>	<b>0.0257</b>	<b>4.5100e-003</b>	<b>0.0302</b>		<b>153.5212</b>	<b>153.5212</b>	<b>4.7600e-003</b>		<b>153.6212</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	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>		<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</b>

**3.6 Paving - 2016****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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>	<b>0.0000</b>	<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day					
Archit. Coating	92.7000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>93.0685</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</b>



### 3.7 Architectural Coating - 2016

#### 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	92.7000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>93.0685</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</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	2.4405	4.0661	26.2074	0.0312	0.7336	0.0622	0.7958	0.2116	0.0622	0.2738		1,332.4763	1,332.4763	0.2043		1,336.7673
Unmitigated	2.4405	4.0661	26.2074	0.0312	0.7336	0.0622	0.7958	0.2116	0.0622	0.2738		1,332.4763	1,332.4763	0.2043		1,336.7673

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	150.00	150.00	150.00	380,931	380,931
Total	150.00	150.00	150.00	380,931	380,931

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.630142	0.126516	0.135380	0.044811	0.004048	0.008281	0.028653	0.003029	0.001699	0.010368	0.005318	0.000926	0.000829

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0160	0.1459	0.1225	8.8000e-004		0.0111	0.0111		0.0111	0.0111		175.0202	175.0202	3.3500e-003	3.2100e-003	176.0853
NaturalGas Unmitigated	0.0160	0.1459	0.1225	8.8000e-004		0.0111	0.0111		0.0111	0.0111		175.0202	175.0202	3.3500e-003	3.2100e-003	176.0853

### 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					
Junior College (2Yr)	1487.67	0.0160	0.1459	0.1225	8.8000e-004		0.0111	0.0111		0.0111	0.0111		175.0202	175.0202	3.3500e-003	3.2100e-003	176.0853
<b>Total</b>		<b>0.0160</b>	<b>0.1459</b>	<b>0.1225</b>	<b>8.8000e-004</b>		<b>0.0111</b>	<b>0.0111</b>		<b>0.0111</b>	<b>0.0111</b>		<b>175.0202</b>	<b>175.0202</b>	<b>3.3500e-003</b>	<b>3.2100e-003</b>	<b>176.0853</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					
Junior College (2Yr)	1.48767	0.0160	0.1459	0.1225	8.8000e-004		0.0111	0.0111		0.0111	0.0111		175.0202	175.0202	3.3500e-003	3.2100e-003	176.0853
<b>Total</b>		<b>0.0160</b>	<b>0.1459</b>	<b>0.1225</b>	<b>8.8000e-004</b>		<b>0.0111</b>	<b>0.0111</b>		<b>0.0111</b>	<b>0.0111</b>		<b>175.0202</b>	<b>175.0202</b>	<b>3.3500e-003</b>	<b>3.2100e-003</b>	<b>176.0853</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	0.5555	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	3.0000e-005		5.0000e-003
Unmitigated	0.5555	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	3.0000e-005		5.0000e-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	0.1270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1000e-004	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	3.0000e-005		5.0000e-003
<b>Total</b>	<b>0.5555</b>	<b>3.0000e-005</b>	<b>3.6200e-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>4.3800e-003</b>	<b>4.3800e-003</b>	<b>3.0000e-005</b>		<b>5.0000e-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	0.1270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4280					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1000e-004	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3800e-003	4.3800e-003	3.0000e-005		5.0000e-003
<b>Total</b>	<b>0.5555</b>	<b>3.0000e-005</b>	<b>3.6200e-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>4.3800e-003</b>	<b>4.3800e-003</b>	<b>3.0000e-005</b>		<b>5.0000e-003</b>

### 7.0 Water Detail

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**AAU Existing Site 3**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	52.00	Dwelling Unit	1.37	52,000.00	81

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Population adjusted according to information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fireplaces or wood stoves.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	35,100.00	11,050.00
tblArchitecturalCoating	ConstArea_Residential_Interior	105,300.00	33,151.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00

tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	200.00	100.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	4.00	2.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	2.00	1.00
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	28.60	0.00
tblFireplaces	NumberNoFireplace	16.12	0.00
tblFireplaces	NumberWood	7.28	0.00
tblLandUse	Population	149.00	81.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00



tblProjectCharacteristics	OperationalYear	2014	2005
tblSolidWaste	SolidWasteGenerationRate	23.92	7.53
tblTripsAndVMT	VendorTripNumber	6.00	2.00
tblTripsAndVMT	WorkerTripNumber	37.00	12.00
tblTripsAndVMT	WorkerTripNumber	7.00	2.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	3,388,009.33	1,066,571.40
tblWater	OutdoorWaterUseRate	2,135,918.93	672,403.71
tblWoodstoves	NumberCatalytic	0.26	0.00
tblWoodstoves	NumberNoncatalytic	0.26	0.00

## 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	lb/day										lb/day					
Area	1.7738	0.0676	4.9755	2.3000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	7.7247	7.7247	0.0124	0.0000	7.9845
Energy	0.0108	0.0926	0.0394	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003		118.2592	118.2592	2.2700e-003	2.1700e-003	118.9789
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>1.7846</b>	<b>0.1603</b>	<b>5.0149</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>0.0285</b>	<b>0.0285</b>	<b>0.0000</b>	<b>0.0285</b>	<b>0.0285</b>	<b>0.0000</b>	<b>125.9839</b>	<b>125.9839</b>	<b>0.0146</b>	<b>2.1700e-003</b>	<b>126.9634</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	1.7738	0.0676	4.9755	2.3000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	7.7247	7.7247	0.0124	0.0000	7.9845
Energy	0.0108	0.0926	0.0394	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003		118.2592	118.2592	2.2700e-003	2.1700e-003	118.9789
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>1.7846</b>	<b>0.1603</b>	<b>5.0149</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>0.0285</b>	<b>0.0285</b>	<b>0.0000</b>	<b>0.0285</b>	<b>0.0285</b>	<b>0.0000</b>	<b>125.9839</b>	<b>125.9839</b>	<b>0.0146</b>	<b>2.1700e-003</b>	<b>126.9634</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 33,151; Residential Outdoor: 11,050; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	12.00	2.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.2 Demolition - 2016

#### 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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>		<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>



### 3.3 Site Preparation - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>	<b>0.0000</b>	<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.4 Grading - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>		<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0251	0.1896	0.3029	4.6000e-004	0.0132	2.8300e-003	0.0160	3.7700e-003	2.6000e-003	6.3700e-003		45.9616	45.9616	3.6000e-004		45.9691
Worker	0.0446	0.0517	0.6229	1.5100e-003	0.1132	1.0000e-003	0.1142	0.0300	9.2000e-004	0.0309		126.8682	126.8682	6.3400e-003		127.0012
<b>Total</b>	<b>0.0698</b>	<b>0.2413</b>	<b>0.9259</b>	<b>1.9700e-003</b>	<b>0.1264</b>	<b>3.8300e-003</b>	<b>0.1302</b>	<b>0.0338</b>	<b>3.5200e-003</b>	<b>0.0373</b>		<b>172.8297</b>	<b>172.8297</b>	<b>6.7000e-003</b>		<b>172.9704</b>

### 3.5 Building Construction - 2016

#### 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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>	<b>0.0000</b>	<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0251	0.1896	0.3029	4.6000e-004	0.0132	2.8300e-003	0.0160	3.7700e-003	2.6000e-003	6.3700e-003		45.9616	45.9616	3.6000e-004		45.9691
Worker	0.0446	0.0517	0.6229	1.5100e-003	0.1132	1.0000e-003	0.1142	0.0300	9.2000e-004	0.0309		126.8682	126.8682	6.3400e-003		127.0012
<b>Total</b>	<b>0.0698</b>	<b>0.2413</b>	<b>0.9259</b>	<b>1.9700e-003</b>	<b>0.1264</b>	<b>3.8300e-003</b>	<b>0.1302</b>	<b>0.0338</b>	<b>3.5200e-003</b>	<b>0.0373</b>		<b>172.8297</b>	<b>172.8297</b>	<b>6.7000e-003</b>		<b>172.9704</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	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>		<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</b>

### 3.6 Paving - 2016

#### 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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>	<b>0.0000</b>	<b>1,083.5832</b>	<b>1,083.5832</b>	<b>0.2969</b>		<b>1,089.8175</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day					
Archit. Coating	102.4358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>102.8043</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</b>



### 3.7 Architectural Coating - 2016

#### 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	102.4358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>102.8043</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</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
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0108	0.0926	0.0394	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003		118.2592	118.2592	2.2700e-003	2.1700e-003	118.9789
NaturalGas Unmitigated	0.0108	0.0926	0.0394	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003		118.2592	118.2592	2.2700e-003	2.1700e-003	118.9789

### 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					
Apartments Mid Rise	1005.2	0.0108	0.0926	0.0394	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003		118.2592	118.2592	2.2700e-003	2.1700e-003	118.9789
<b>Total</b>		<b>0.0108</b>	<b>0.0926</b>	<b>0.0394</b>	<b>5.9000e-004</b>		<b>7.4900e-003</b>	<b>7.4900e-003</b>		<b>7.4900e-003</b>	<b>7.4900e-003</b>		<b>118.2592</b>	<b>118.2592</b>	<b>2.2700e-003</b>	<b>2.1700e-003</b>	<b>118.9789</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					
Apartments Mid Rise	1.0052	0.0108	0.0926	0.0394	5.9000e-004		7.4900e-003	7.4900e-003		7.4900e-003	7.4900e-003		118.2592	118.2592	2.2700e-003	2.1700e-003	118.9789
<b>Total</b>		<b>0.0108</b>	<b>0.0926</b>	<b>0.0394</b>	<b>5.9000e-004</b>		<b>7.4900e-003</b>	<b>7.4900e-003</b>		<b>7.4900e-003</b>	<b>7.4900e-003</b>		<b>118.2592</b>	<b>118.2592</b>	<b>2.2700e-003</b>	<b>2.1700e-003</b>	<b>118.9789</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	1.7738	0.0676	4.9755	2.3000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	7.7247	7.7247	0.0124	0.0000	7.9845
Unmitigated	1.7738	0.0676	4.9755	2.3000e-004		0.0210	0.0210		0.0210	0.0210	0.0000	7.7247	7.7247	0.0124	0.0000	7.9845

### 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	0.4457					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2153	0.0676	4.9755	2.3000e-004		0.0210	0.0210		0.0210	0.0210		7.7247	7.7247	0.0124		7.9845
<b>Total</b>	<b>1.7738</b>	<b>0.0676</b>	<b>4.9755</b>	<b>2.3000e-004</b>		<b>0.0210</b>	<b>0.0210</b>		<b>0.0210</b>	<b>0.0210</b>	<b>0.0000</b>	<b>7.7247</b>	<b>7.7247</b>	<b>0.0124</b>	<b>0.0000</b>	<b>7.9845</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	lb/day										lb/day					
Architectural Coating	0.4457					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1128					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2153	0.0676	4.9755	2.3000e-004		0.0210	0.0210		0.0210	0.0210		7.7247	7.7247	0.0124		7.9845
<b>Total</b>	<b>1.7738</b>	<b>0.0676</b>	<b>4.9755</b>	<b>2.3000e-004</b>		<b>0.0210</b>	<b>0.0210</b>		<b>0.0210</b>	<b>0.0210</b>	<b>0.0000</b>	<b>7.7247</b>	<b>7.7247</b>	<b>0.0124</b>	<b>0.0000</b>	<b>7.9845</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
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## 10.0 Vegetation

**AAU Existing Site 4**  
**San Francisco County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	3.00	Dwelling Unit	0.08	3,000.00	20

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1. 1/29/16

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fireplaces or wood stoves.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	2,025.00	3,426.00
tblArchitecturalCoating	ConstArea_Residential_Interior	6,075.00	10,279.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_Residential_Exterior	2025	2700
tblAreaCoating	Area_Residential_Interior	6075	8100
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	1.65	0.00
tblFireplaces	NumberNoFireplace	0.93	0.00
tblFireplaces	NumberWood	0.42	0.00
tblLandUse	Population	9.00	20.00
tblProjectCharacteristics	OperationalYear	2014	2005
tblSolidWaste	SolidWasteGenerationRate	1.38	2.34
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	0.00	1.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	195,462.08	330,982.45
tblWater	OutdoorWaterUseRate	123,226.09	208,662.85
tblWoodstoves	NumberCatalytic	0.02	0.00
tblWoodstoves	NumberNoncatalytic	0.02	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					
2016	32.1335	13.8179	9.2239	0.0134	0.8471	0.9416	1.6518	0.4388	0.8662	1.2069	0.0000	1,299.334 1	1,299.334 1	0.3578	0.0000	1,306.847 6
<b>Total</b>	<b>32.1335</b>	<b>13.8179</b>	<b>9.2239</b>	<b>0.0134</b>	<b>0.8471</b>	<b>0.9416</b>	<b>1.6518</b>	<b>0.4388</b>	<b>0.8662</b>	<b>1.2069</b>	<b>0.0000</b>	<b>1,299.334 1</b>	<b>1,299.334 1</b>	<b>0.3578</b>	<b>0.0000</b>	<b>1,306.847 6</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					
2016	32.1335	13.8179	9.2239	0.0134	0.8471	0.9416	1.6518	0.4388	0.8662	1.2069	0.0000	1,299.334 1	1,299.334 1	0.3578	0.0000	1,306.847 6
<b>Total</b>	<b>32.1335</b>	<b>13.8179</b>	<b>9.2239</b>	<b>0.0134</b>	<b>0.8471</b>	<b>0.9416</b>	<b>1.6518</b>	<b>0.4388</b>	<b>0.8662</b>	<b>1.2069</b>	<b>0.0000</b>	<b>1,299.334 1</b>	<b>1,299.334 1</b>	<b>0.3578</b>	<b>0.0000</b>	<b>1,306.847 6</b>



## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1109	3.9000e-003	0.2871	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	0.4457	0.4457	7.1000e-004	0.0000	0.4606
Energy	6.3000e-004	5.3400e-003	2.2700e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004		6.8226	6.8226	1.3000e-004	1.3000e-004	6.8642
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>0.1115</b>	<b>9.2400e-003</b>	<b>0.2893</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.6400e-003</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>1.6400e-003</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>7.2683</b>	<b>7.2683</b>	<b>8.4000e-004</b>	<b>1.3000e-004</b>	<b>7.3248</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	0.1109	3.9000e-003	0.2871	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	0.4457	0.4457	7.1000e-004	0.0000	0.4606
Energy	6.3000e-004	5.3400e-003	2.2700e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004		6.8226	6.8226	1.3000e-004	1.3000e-004	6.8642
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>0.1115</b>	<b>9.2400e-003</b>	<b>0.2893</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.6400e-003</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>1.6400e-003</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>7.2683</b>	<b>7.2683</b>	<b>8.4000e-004</b>	<b>1.3000e-004</b>	<b>7.3248</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 10,279; Residential Outdoor: 3,426; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	4.00	1.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

**3.2 Demolition - 2016****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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>		<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>



### 3.3 Site Preparation - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>	<b>0.0000</b>	<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.4 Grading - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>		<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0126	0.0948	0.1515	2.3000e-004	6.6000e-003	1.4200e-003	8.0200e-003	1.8800e-003	1.3000e-003	3.1800e-003		22.9808	22.9808	1.8000e-004		22.9846
Worker	0.0149	0.0172	0.2076	5.0000e-004	0.0377	3.3000e-004	0.0381	0.0100	3.1000e-004	0.0103		42.2894	42.2894	2.1100e-003		42.3337
<b>Total</b>	<b>0.0274</b>	<b>0.1120</b>	<b>0.3591</b>	<b>7.3000e-004</b>	<b>0.0443</b>	<b>1.7500e-003</b>	<b>0.0461</b>	<b>0.0119</b>	<b>1.6100e-003</b>	<b>0.0135</b>		<b>65.2702</b>	<b>65.2702</b>	<b>2.2900e-003</b>		<b>65.3183</b>

### 3.5 Building Construction - 2016

#### 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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>	<b>0.0000</b>	<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0126	0.0948	0.1515	2.3000e-004	6.6000e-003	1.4200e-003	8.0200e-003	1.8800e-003	1.3000e-003	3.1800e-003		22.9808	22.9808	1.8000e-004		22.9846
Worker	0.0149	0.0172	0.2076	5.0000e-004	0.0377	3.3000e-004	0.0381	0.0100	3.1000e-004	0.0103		42.2894	42.2894	2.1100e-003		42.3337
<b>Total</b>	<b>0.0274</b>	<b>0.1120</b>	<b>0.3591</b>	<b>7.3000e-004</b>	<b>0.0443</b>	<b>1.7500e-003</b>	<b>0.0461</b>	<b>0.0119</b>	<b>1.6100e-003</b>	<b>0.0135</b>		<b>65.2702</b>	<b>65.2702</b>	<b>2.2900e-003</b>		<b>65.3183</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	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>		<b>1,083.5832</b>	<b>1,083.5832</b>	<b>0.2969</b>		<b>1,089.8175</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</b>

### 3.6 Paving - 2016

#### 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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>	<b>0.0000</b>	<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day						
Archit. Coating	31.7613					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
<b>Total</b>	<b>32.1298</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>			<b>282.1449</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	3.7200e-003	4.3100e-003	0.0519	1.3000e-004	9.4300e-003	8.0000e-005	9.5100e-003	2.5000e-003	8.0000e-005	2.5800e-003		10.5724	10.5724	5.3000e-004			10.5834
<b>Total</b>	<b>3.7200e-003</b>	<b>4.3100e-003</b>	<b>0.0519</b>	<b>1.3000e-004</b>	<b>9.4300e-003</b>	<b>8.0000e-005</b>	<b>9.5100e-003</b>	<b>2.5000e-003</b>	<b>8.0000e-005</b>	<b>2.5800e-003</b>		<b>10.5724</b>	<b>10.5724</b>	<b>5.3000e-004</b>			<b>10.5834</b>



### 3.7 Architectural Coating - 2016

#### 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	31.7613					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>32.1298</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	3.7200e-003	4.3100e-003	0.0519	1.3000e-004	9.4300e-003	8.0000e-005	9.5100e-003	2.5000e-003	8.0000e-005	2.5800e-003		10.5724	10.5724	5.3000e-004		10.5834
<b>Total</b>	<b>3.7200e-003</b>	<b>4.3100e-003</b>	<b>0.0519</b>	<b>1.3000e-004</b>	<b>9.4300e-003</b>	<b>8.0000e-005</b>	<b>9.5100e-003</b>	<b>2.5000e-003</b>	<b>8.0000e-005</b>	<b>2.5800e-003</b>		<b>10.5724</b>	<b>10.5724</b>	<b>5.3000e-004</b>		<b>10.5834</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
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	6.3000e-004	5.3400e-003	2.2700e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004		6.8226	6.8226	1.3000e-004	1.3000e-004	6.8642
NaturalGas Unmitigated	6.3000e-004	5.3400e-003	2.2700e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004		6.8226	6.8226	1.3000e-004	1.3000e-004	6.8642

### 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					
Apartments Mid Rise	57.9925	6.3000e-004	5.3400e-003	2.2700e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004		6.8226	6.8226	1.3000e-004	1.3000e-004	6.8642
<b>Total</b>		<b>6.3000e-004</b>	<b>5.3400e-003</b>	<b>2.2700e-003</b>	<b>3.0000e-005</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>		<b>6.8226</b>	<b>6.8226</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>6.8642</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					
Apartments Mid Rise	0.0579925	6.3000e-004	5.3400e-003	2.2700e-003	3.0000e-005		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004		6.8226	6.8226	1.3000e-004	1.3000e-004	6.8642
<b>Total</b>		<b>6.3000e-004</b>	<b>5.3400e-003</b>	<b>2.2700e-003</b>	<b>3.0000e-005</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>		<b>6.8226</b>	<b>6.8226</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>6.8642</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	0.1109	3.9000e-003	0.2871	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	0.4457	0.4457	7.1000e-004	0.0000	0.4606
Unmitigated	0.1109	3.9000e-003	0.2871	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003	0.0000	0.4457	0.4457	7.1000e-004	0.0000	0.4606

### 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	0.0642					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0124	3.9000e-003	0.2871	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.4457	0.4457	7.1000e-004		0.4606
<b>Total</b>	<b>0.1109</b>	<b>3.9000e-003</b>	<b>0.2871</b>	<b>1.0000e-005</b>		<b>1.2100e-003</b>	<b>1.2100e-003</b>		<b>1.2100e-003</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>0.4457</b>	<b>0.4457</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>0.4606</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	lb/day										lb/day					
Architectural Coating	0.0343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0642					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0124	3.9000e-003	0.2871	1.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.4457	0.4457	7.1000e-004		0.4606
<b>Total</b>	<b>0.1109</b>	<b>3.9000e-003</b>	<b>0.2871</b>	<b>1.0000e-005</b>		<b>1.2100e-003</b>	<b>1.2100e-003</b>		<b>1.2100e-003</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>0.4457</b>	<b>0.4457</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>0.4606</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
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## 10.0 Vegetation

**AAU Existing Site 5**  
**San Francisco County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	22.00	Dwelling Unit	0.58	22,000.00	56

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1. 1/29/2016

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fire places or wood stoves.

Area Coating -

Energy Use - adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,850.00	8,030.00
tblArchitecturalCoating	ConstArea_Residential_Interior	44,550.00	24,091.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_Residential_Exterior	14850	12150
tblAreaCoating	Area_Residential_Interior	44550	36450
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	12.10	0.00
tblFireplaces	NumberNoFireplace	6.82	0.00
tblFireplaces	NumberWood	3.08	0.00
tblLandUse	Population	63.00	56.00
tblProjectCharacteristics	OperationalYear	2014	1990
tblSolidWaste	SolidWasteGenerationRate	10.12	5.47
tblTripsAndVMT	VendorTripNumber	2.00	1.00
tblTripsAndVMT	WorkerTripNumber	16.00	9.00
tblTripsAndVMT	WorkerTripNumber	3.00	2.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	1,433,388.56	775,332.90
tblWater	OutdoorWaterUseRate	903,658.01	488,796.83
tblWoodstoves	NumberCatalytic	0.11	0.00
tblWoodstoves	NumberNoncatalytic	0.11	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					
2016	74.8163	13.8394	9.2239	0.0134	0.8471	0.9420	1.6518	0.4388	0.8666	1.2069	0.0000	1,299.334 1	1,299.334 1	0.3604	0.0000	1,306.903 0
<b>Total</b>	<b>74.8163</b>	<b>13.8394</b>	<b>9.2239</b>	<b>0.0134</b>	<b>0.8471</b>	<b>0.9420</b>	<b>1.6518</b>	<b>0.4388</b>	<b>0.8666</b>	<b>1.2069</b>	<b>0.0000</b>	<b>1,299.334 1</b>	<b>1,299.334 1</b>	<b>0.3604</b>	<b>0.0000</b>	<b>1,306.903 0</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					
2016	74.8163	13.8394	9.2239	0.0134	0.8471	0.9420	1.6518	0.4388	0.8666	1.2069	0.0000	1,299.334 1	1,299.334 1	0.3604	0.0000	1,306.903 0
<b>Total</b>	<b>74.8163</b>	<b>13.8394</b>	<b>9.2239</b>	<b>0.0134</b>	<b>0.8471</b>	<b>0.9420</b>	<b>1.6518</b>	<b>0.4388</b>	<b>0.8666</b>	<b>1.2069</b>	<b>0.0000</b>	<b>1,299.334 1</b>	<b>1,299.334 1</b>	<b>0.3604</b>	<b>0.0000</b>	<b>1,306.903 0</b>



## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8368	0.0276	4.0925	1.4400e-003		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	3.2682	3.2682	0.0232	0.0000	3.7552
Energy	4.5900e-003	0.0392	0.0167	2.5000e-004		3.1700e-003	3.1700e-003		3.1700e-003	3.1700e-003		50.0327	50.0327	9.6000e-004	9.2000e-004	50.3372
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>0.8414</b>	<b>0.0668</b>	<b>4.1091</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>7.7300e-003</b>	<b>7.7300e-003</b>	<b>0.0000</b>	<b>7.7300e-003</b>	<b>7.7300e-003</b>	<b>0.0000</b>	<b>53.3009</b>	<b>53.3009</b>	<b>0.0242</b>	<b>9.2000e-004</b>	<b>54.0925</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	0.8368	0.0276	4.0925	1.4400e-003		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	3.2682	3.2682	0.0232	0.0000	3.7552
Energy	4.5900e-003	0.0392	0.0167	2.5000e-004		3.1700e-003	3.1700e-003		3.1700e-003	3.1700e-003		50.0327	50.0327	9.6000e-004	9.2000e-004	50.3372
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>0.8414</b>	<b>0.0668</b>	<b>4.1091</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>7.7300e-003</b>	<b>7.7300e-003</b>	<b>0.0000</b>	<b>7.7300e-003</b>	<b>7.7300e-003</b>	<b>0.0000</b>	<b>53.3009</b>	<b>53.3009</b>	<b>0.0242</b>	<b>9.2000e-004</b>	<b>54.0925</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 24,091; Residential Outdoor: 8,030; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	9.00	1.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.2 Demolition - 2016

#### 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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>		<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>



### 3.3 Site Preparation - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>	<b>0.0000</b>	<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.4 Grading - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>		<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0126	0.0948	0.1515	2.3000e-004	6.6000e-003	1.4200e-003	8.0200e-003	1.8800e-003	1.3000e-003	3.1800e-003		22.9808	22.9808	1.8000e-004		22.9846
Worker	0.0335	0.0388	0.4672	1.1300e-003	0.0849	7.5000e-004	0.0856	0.0225	6.9000e-004	0.0232		95.1511	95.1511	4.7500e-003		95.2509
<b>Total</b>	<b>0.0460</b>	<b>0.1336</b>	<b>0.6187</b>	<b>1.3600e-003</b>	<b>0.0915</b>	<b>2.1700e-003</b>	<b>0.0936</b>	<b>0.0244</b>	<b>1.9900e-003</b>	<b>0.0264</b>		<b>118.1319</b>	<b>118.1319</b>	<b>4.9300e-003</b>		<b>118.2355</b>

### 3.5 Building Construction - 2016

#### 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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>	<b>0.0000</b>	<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0126	0.0948	0.1515	2.3000e-004	6.6000e-003	1.4200e-003	8.0200e-003	1.8800e-003	1.3000e-003	3.1800e-003		22.9808	22.9808	1.8000e-004		22.9846
Worker	0.0335	0.0388	0.4672	1.1300e-003	0.0849	7.5000e-004	0.0856	0.0225	6.9000e-004	0.0232		95.1511	95.1511	4.7500e-003		95.2509
<b>Total</b>	<b>0.0460</b>	<b>0.1336</b>	<b>0.6187</b>	<b>1.3600e-003</b>	<b>0.0915</b>	<b>2.1700e-003</b>	<b>0.0936</b>	<b>0.0244</b>	<b>1.9900e-003</b>	<b>0.0264</b>		<b>118.1319</b>	<b>118.1319</b>	<b>4.9300e-003</b>		<b>118.2355</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	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>		<b>1,083.5832</b>	<b>1,083.5832</b>	<b>0.2969</b>		<b>1,089.8175</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</b>

### 3.6 Paving - 2016

#### 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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>	<b>0.0000</b>	<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day					
Archit. Coating	74.4404					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>74.8089</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</b>



### 3.7 Architectural Coating - 2016

#### 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	74.4404					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>74.8089</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</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
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.5900e-003	0.0392	0.0167	2.5000e-004		3.1700e-003	3.1700e-003		3.1700e-003	3.1700e-003		50.0327	50.0327	9.6000e-004	9.2000e-004	50.3372
NaturalGas Unmitigated	4.5900e-003	0.0392	0.0167	2.5000e-004		3.1700e-003	3.1700e-003		3.1700e-003	3.1700e-003		50.0327	50.0327	9.6000e-004	9.2000e-004	50.3372

### 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					
Apartments Mid Rise	425.278	4.5900e-003	0.0392	0.0167	2.5000e-004		3.1700e-003	3.1700e-003		3.1700e-003	3.1700e-003		50.0327	50.0327	9.6000e-004	9.2000e-004	50.3372
<b>Total</b>		<b>4.5900e-003</b>	<b>0.0392</b>	<b>0.0167</b>	<b>2.5000e-004</b>		<b>3.1700e-003</b>	<b>3.1700e-003</b>		<b>3.1700e-003</b>	<b>3.1700e-003</b>		<b>50.0327</b>	<b>50.0327</b>	<b>9.6000e-004</b>	<b>9.2000e-004</b>	<b>50.3372</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					
Apartments Mid Rise	0.425278	4.5900e-003	0.0392	0.0167	2.5000e-004		3.1700e-003	3.1700e-003		3.1700e-003	3.1700e-003		50.0327	50.0327	9.6000e-004	9.2000e-004	50.3372
<b>Total</b>		<b>4.5900e-003</b>	<b>0.0392</b>	<b>0.0167</b>	<b>2.5000e-004</b>		<b>3.1700e-003</b>	<b>3.1700e-003</b>		<b>3.1700e-003</b>	<b>3.1700e-003</b>		<b>50.0327</b>	<b>50.0327</b>	<b>9.6000e-004</b>	<b>9.2000e-004</b>	<b>50.3372</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	0.8368	0.0276	4.0925	1.4400e-003		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	3.2682	3.2682	0.0232	0.0000	3.7552
Unmitigated	0.8368	0.0276	4.0925	1.4400e-003		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003	0.0000	3.2682	3.2682	0.0232	0.0000	3.7552

### 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	0.1543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4708					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2117	0.0276	4.0925	1.4400e-003		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003		3.2682	3.2682	0.0232		3.7552
<b>Total</b>	<b>0.8368</b>	<b>0.0276</b>	<b>4.0925</b>	<b>1.4400e-003</b>		<b>4.5600e-003</b>	<b>4.5600e-003</b>		<b>4.5600e-003</b>	<b>4.5600e-003</b>	<b>0.0000</b>	<b>3.2682</b>	<b>3.2682</b>	<b>0.0232</b>	<b>0.0000</b>	<b>3.7552</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	lb/day										lb/day					
Architectural Coating	0.1543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4708					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2117	0.0276	4.0925	1.4400e-003		4.5600e-003	4.5600e-003		4.5600e-003	4.5600e-003		3.2682	3.2682	0.0232		3.7552
<b>Total</b>	<b>0.8368</b>	<b>0.0276</b>	<b>4.0925</b>	<b>1.4400e-003</b>		<b>4.5600e-003</b>	<b>4.5600e-003</b>		<b>4.5600e-003</b>	<b>4.5600e-003</b>	<b>0.0000</b>	<b>3.2682</b>	<b>3.2682</b>	<b>0.0232</b>	<b>0.0000</b>	<b>3.7552</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 6**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	27.91	1000sqft	0.64	27,912.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.52 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 4/19/16 adjustment to trip rates due to updated information.

Energy Use - adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblLandUse	LandUseSquareFeet	27,910.00	27,912.00
tblProjectCharacteristics	OperationalYear	2014	2005
tblVehicleTrips	ST_TR	11.23	6.40
tblVehicleTrips	SU_TR	1.21	6.40
tblVehicleTrips	WD_TR	27.49	6.40

## 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	lb/day										lb/day					
Area	0.7750	4.0000e-005	3.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.1100e-003	6.1100e-003	3.0000e-005		6.7100e-003
Energy	0.0224	0.2036	0.1710	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.2581	244.2581	4.6800e-003	4.4800e-003	245.7446
Mobile	1.7041	3.1980	17.8109	0.0302	0.8736	0.0699	0.9434	0.2520	0.0699	0.3218		1,564.2675	1,564.2675	0.1507		1,567.4330
<b>Total</b>	<b>2.5015</b>	<b>3.4016</b>	<b>17.9855</b>	<b>0.0314</b>	<b>0.8736</b>	<b>0.0854</b>	<b>0.9589</b>	<b>0.2520</b>	<b>0.0854</b>	<b>0.3373</b>		<b>1,808.5317</b>	<b>1,808.5317</b>	<b>0.1555</b>	<b>4.4800e-003</b>	<b>1,813.1843</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	0.7750	4.0000e-005	3.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.1100e-003	6.1100e-003	3.0000e-005		6.7100e-003
Energy	0.0224	0.2036	0.1710	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.2581	244.2581	4.6800e-003	4.4800e-003	245.7446
Mobile	1.7041	3.1980	17.8109	0.0302	0.8736	0.0699	0.9434	0.2520	0.0699	0.3218		1,564.2675	1,564.2675	0.1507		1,567.4330
<b>Total</b>	<b>2.5015</b>	<b>3.4016</b>	<b>17.9855</b>	<b>0.0314</b>	<b>0.8736</b>	<b>0.0854</b>	<b>0.9589</b>	<b>0.2520</b>	<b>0.0854</b>	<b>0.3373</b>		<b>1,808.5317</b>	<b>1,808.5317</b>	<b>0.1555</b>	<b>4.4800e-003</b>	<b>1,813.1843</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 41,868; Non-Residential Outdoor: 13,956 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	12.00	5.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.2 Demolition - 2016

#### 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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>		<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>

### 3.3 Site Preparation - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>	<b>0.0000</b>	<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.4 Grading - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>		<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0629	0.4741	0.7573	1.1500e-003	0.0330	7.0800e-003	0.0401	9.4100e-003	6.5000e-003	0.0159		114.9040	114.9040	9.0000e-004		114.9228
Worker	0.0446	0.0517	0.6229	1.5100e-003	0.1132	1.0000e-003	0.1142	0.0300	9.2000e-004	0.0309		126.8682	126.8682	6.3400e-003		127.0012
<b>Total</b>	<b>0.1075</b>	<b>0.5258</b>	<b>1.3802</b>	<b>2.6600e-003</b>	<b>0.1462</b>	<b>8.0800e-003</b>	<b>0.1543</b>	<b>0.0394</b>	<b>7.4200e-003</b>	<b>0.0469</b>		<b>241.7721</b>	<b>241.7721</b>	<b>7.2400e-003</b>		<b>241.9241</b>

### 3.5 Building Construction - 2016

#### 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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>	<b>0.0000</b>	<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0629	0.4741	0.7573	1.1500e-003	0.0330	7.0800e-003	0.0401	9.4100e-003	6.5000e-003	0.0159		114.9040	114.9040	9.0000e-004		114.9228
Worker	0.0446	0.0517	0.6229	1.5100e-003	0.1132	1.0000e-003	0.1142	0.0300	9.2000e-004	0.0309		126.8682	126.8682	6.3400e-003		127.0012
<b>Total</b>	<b>0.1075</b>	<b>0.5258</b>	<b>1.3802</b>	<b>2.6600e-003</b>	<b>0.1462</b>	<b>8.0800e-003</b>	<b>0.1543</b>	<b>0.0394</b>	<b>7.4200e-003</b>	<b>0.0469</b>		<b>241.7721</b>	<b>241.7721</b>	<b>7.2400e-003</b>		<b>241.9241</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	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>		<b>1,083.5832</b>	<b>1,083.5832</b>	<b>0.2969</b>		<b>1,089.8175</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</b>

### 3.6 Paving - 2016

#### 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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>	<b>0.0000</b>	<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day					
Archit. Coating	129.3721					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>129.7406</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</b>

### 3.7 Architectural Coating - 2016

#### 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	129.3721					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>129.7406</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</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	1.7041	3.1980	17.8109	0.0302	0.8736	0.0699	0.9434	0.2520	0.0699	0.3218		1,564.2675	1,564.2675	0.1507		1,567.4330
Unmitigated	1.7041	3.1980	17.8109	0.0302	0.8736	0.0699	0.9434	0.2520	0.0699	0.3218		1,564.2675	1,564.2675	0.1507		1,567.4330

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	178.62	178.62	178.62	453,622	453,622
Total	178.62	178.62	178.62	453,622	453,622

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0224	0.2036	0.1710	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.2581	244.2581	4.6800e-003	4.4800e-003	245.7446
NaturalGas Unmitigated	0.0224	0.2036	0.1710	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.2581	244.2581	4.6800e-003	4.4800e-003	245.7446

### 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					
Junior College (2Yr)	2076.19	0.0224	0.2036	0.1710	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.2581	244.2581	4.6800e-003	4.4800e-003	245.7446
<b>Total</b>		<b>0.0224</b>	<b>0.2036</b>	<b>0.1710</b>	<b>1.2200e-003</b>		<b>0.0155</b>	<b>0.0155</b>		<b>0.0155</b>	<b>0.0155</b>		<b>244.2581</b>	<b>244.2581</b>	<b>4.6800e-003</b>	<b>4.4800e-003</b>	<b>245.7446</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					
Junior College (2Yr)	2.07619	0.0224	0.2036	0.1710	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.2581	244.2581	4.6800e-003	4.4800e-003	245.7446
<b>Total</b>		<b>0.0224</b>	<b>0.2036</b>	<b>0.1710</b>	<b>1.2200e-003</b>		<b>0.0155</b>	<b>0.0155</b>		<b>0.0155</b>	<b>0.0155</b>		<b>244.2581</b>	<b>244.2581</b>	<b>4.6800e-003</b>	<b>4.4800e-003</b>	<b>245.7446</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	0.7750	4.0000e-005	3.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.1100e-003	6.1100e-003	3.0000e-005		6.7100e-003
Unmitigated	0.7750	4.0000e-005	3.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.1100e-003	6.1100e-003	3.0000e-005		6.7100e-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	0.1772					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5973					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	4.0000e-005	3.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.1100e-003	6.1100e-003	3.0000e-005		6.7100e-003
<b>Total</b>	<b>0.7750</b>	<b>4.0000e-005</b>	<b>3.6300e-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>6.1100e-003</b>	<b>6.1100e-003</b>	<b>3.0000e-005</b>		<b>6.7100e-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	0.1772					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5973					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	4.0000e-005	3.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.1100e-003	6.1100e-003	3.0000e-005		6.7100e-003
<b>Total</b>	<b>0.7750</b>	<b>4.0000e-005</b>	<b>3.6300e-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>6.1100e-003</b>	<b>6.1100e-003</b>	<b>3.0000e-005</b>		<b>6.7100e-003</b>

### 7.0 Water Detail

## 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 8**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	107.91	1000sqft	2.48	107,908.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.414 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblLandUse	LandUseSquareFeet	107,910.00	107,908.00
tblProjectCharacteristics	OperationalYear	2014	1990
tblVehicleTrips	ST_TR	11.23	7.41
tblVehicleTrips	SU_TR	1.21	7.41
tblVehicleTrips	WD_TR	27.49	7.41

## 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	lb/day										lb/day						
Area	2.9991	1.3000e-004	0.0360	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0236	0.0236	4.5000e-004			0.0330
Energy	0.0866	0.7869	0.6610	4.7200e-003		0.0598	0.0598		0.0598	0.0598		944.3037	944.3037	0.0181	0.0173		950.0506
Mobile	27.5250	34.1674	322.0198	2.4517	3.9130	0.4210	4.3340	1.1289	0.4210	1.5499		6,786.3202	6,786.3202	1.9553			6,827.3806
<b>Total</b>	<b>30.6107</b>	<b>34.9544</b>	<b>322.7168</b>	<b>2.4564</b>	<b>3.9130</b>	<b>0.4809</b>	<b>4.3939</b>	<b>1.1289</b>	<b>0.4809</b>	<b>1.6098</b>		<b>7,730.6475</b>	<b>7,730.6475</b>	<b>1.9738</b>	<b>0.0173</b>		<b>7,777.4642</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	2.9991	1.3000e-004	0.0360	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0236	0.0236	4.5000e-004			0.0330
Energy	0.0866	0.7869	0.6610	4.7200e-003		0.0598	0.0598		0.0598	0.0598		944.3037	944.3037	0.0181	0.0173		950.0506
Mobile	27.5250	34.1674	322.0198	2.4517	3.9130	0.4210	4.3340	1.1289	0.4210	1.5499		6,786.3202	6,786.3202	1.9553			6,827.3806
<b>Total</b>	<b>30.6107</b>	<b>34.9544</b>	<b>322.7168</b>	<b>2.4564</b>	<b>3.9130</b>	<b>0.4809</b>	<b>4.3939</b>	<b>1.1289</b>	<b>0.4809</b>	<b>1.6098</b>		<b>7,730.6475</b>	<b>7,730.6475</b>	<b>1.9738</b>	<b>0.0173</b>		<b>7,777.4642</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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/2/2016	5	3	
3	Grading	Grading	2/3/2016	2/10/2016	5	6	
4	Building Construction	Building Construction	2/11/2016	12/14/2016	5	220	
5	Paving	Paving	12/15/2016	12/28/2016	5	10	
6	Architectural Coating	Architectural Coating	12/29/2016	1/11/2017	5	10	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 161,862; Non-Residential Outdoor: 53,954 (Architectural Coating – sqft)**

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	45.00	18.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328		2,487.1296	2,487.1296	0.6288		2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>		<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>		<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328	0.0000	2,487.1296	2,487.1296	0.6288			2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>	<b>0.0000</b>	<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>			<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.6992	30.8238	18.0600	0.0239		1.5116	1.5116		1.3907	1.3907		2,480.1000	2,480.1000	0.7481		2,495.8099
<b>Total</b>	<b>2.6992</b>	<b>30.8238</b>	<b>18.0600</b>	<b>0.0239</b>	<b>1.5908</b>	<b>1.5116</b>	<b>3.1024</b>	<b>0.1718</b>	<b>1.3907</b>	<b>1.5625</b>		<b>2,480.1000</b>	<b>2,480.1000</b>	<b>0.7481</b>		<b>2,495.8099</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000	
Off-Road	2.6992	30.8238	18.0600	0.0239		1.5116	1.5116		1.3907	1.3907	0.0000	2,480.1000	2,480.1000	0.7481			2,495.8099
<b>Total</b>	<b>2.6992</b>	<b>30.8238</b>	<b>18.0600</b>	<b>0.0239</b>	<b>1.5908</b>	<b>1.5116</b>	<b>3.1024</b>	<b>0.1718</b>	<b>1.3907</b>	<b>1.5625</b>	<b>0.0000</b>	<b>2,480.1000</b>	<b>2,480.1000</b>	<b>0.7481</b>			<b>2,495.8099</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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	lb/day										lb/day						
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000				0.0000
Off-Road	2.8530	29.9470	19.6345	0.0206		1.6671	1.6671		1.5337	1.5337		2,139.274 2	2,139.274 2	0.6453			2,152.825 1
<b>Total</b>	<b>2.8530</b>	<b>29.9470</b>	<b>19.6345</b>	<b>0.0206</b>	<b>6.5523</b>	<b>1.6671</b>	<b>8.2195</b>	<b>3.3675</b>	<b>1.5337</b>	<b>4.9012</b>		<b>2,139.274 2</b>	<b>2,139.274 2</b>	<b>0.6453</b>			<b>2,152.825 1</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	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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.8530	29.9470	19.6345	0.0206		1.6671	1.6671		1.5337	1.5337	0.0000	2,139.274 2	2,139.274 2	0.6453		2,152.825 1
<b>Total</b>	<b>2.8530</b>	<b>29.9470</b>	<b>19.6345</b>	<b>0.0206</b>	<b>6.5523</b>	<b>1.6671</b>	<b>8.2195</b>	<b>3.3675</b>	<b>1.5337</b>	<b>4.9012</b>	<b>0.0000</b>	<b>2,139.274 2</b>	<b>2,139.274 2</b>	<b>0.6453</b>		<b>2,152.825 1</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	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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003			105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>			<b>105.8344</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	lb/day										lb/day						
Off-Road	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569		2,352.2239	2,352.2239	0.5420			2,363.6057
<b>Total</b>	<b>3.6984</b>	<b>24.6320</b>	<b>16.7166</b>	<b>0.0249</b>		<b>1.6257</b>	<b>1.6257</b>		<b>1.5569</b>	<b>1.5569</b>		<b>2,352.2239</b>	<b>2,352.2239</b>	<b>0.5420</b>			<b>2,363.6057</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	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	0.2263	1.7066	2.7262	4.1400e-003	0.1188	0.0255	0.1443	0.0339	0.0234	0.0573		413.6543	413.6543	3.2300e-003			413.7222
Worker	0.1673	0.1939	2.3360	5.6600e-003	0.4244	3.7400e-003	0.4281	0.1126	3.4400e-003	0.1160		475.7556	475.7556	0.0238			476.2546
<b>Total</b>	<b>0.3936</b>	<b>1.9005</b>	<b>5.0622</b>	<b>9.8000e-003</b>	<b>0.5432</b>	<b>0.0292</b>	<b>0.5724</b>	<b>0.1464</b>	<b>0.0269</b>	<b>0.1733</b>		<b>889.4099</b>	<b>889.4099</b>	<b>0.0270</b>			<b>889.9768</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	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569	0.0000	2,352.2239	2,352.2239	0.5420			2,363.6057
<b>Total</b>	<b>3.6984</b>	<b>24.6320</b>	<b>16.7166</b>	<b>0.0249</b>		<b>1.6257</b>	<b>1.6257</b>		<b>1.5569</b>	<b>1.5569</b>	<b>0.0000</b>	<b>2,352.2239</b>	<b>2,352.2239</b>	<b>0.5420</b>			<b>2,363.6057</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	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	0.2263	1.7066	2.7262	4.1400e-003	0.1188	0.0255	0.1443	0.0339	0.0234	0.0573		413.6543	413.6543	3.2300e-003			413.7222
Worker	0.1673	0.1939	2.3360	5.6600e-003	0.4244	3.7400e-003	0.4281	0.1126	3.4400e-003	0.1160		475.7556	475.7556	0.0238			476.2546
<b>Total</b>	<b>0.3936</b>	<b>1.9005</b>	<b>5.0622</b>	<b>9.8000e-003</b>	<b>0.5432</b>	<b>0.0292</b>	<b>0.5724</b>	<b>0.1464</b>	<b>0.0269</b>	<b>0.1733</b>		<b>889.4099</b>	<b>889.4099</b>	<b>0.0270</b>			<b>889.9768</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	lb/day										lb/day						
Off-Road	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363		1,804.8600	1,804.8600	0.5344			1,816.0828
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.7811</b>	<b>17.9300</b>	<b>12.1433</b>	<b>0.0176</b>		<b>1.1252</b>	<b>1.1252</b>		<b>1.0363</b>	<b>1.0363</b>		<b>1,804.8600</b>	<b>1,804.8600</b>	<b>0.5344</b>			<b>1,816.0828</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003			158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>			<b>158.7515</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	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363	0.0000	1,804.8600	1,804.8600	0.5344			1,816.0828
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.7811</b>	<b>17.9300</b>	<b>12.1433</b>	<b>0.0176</b>		<b>1.1252</b>	<b>1.1252</b>		<b>1.0363</b>	<b>1.0363</b>	<b>0.0000</b>	<b>1,804.8600</b>	<b>1,804.8600</b>	<b>0.5344</b>			<b>1,816.0828</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003			158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>			<b>158.7515</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	lb/day										lb/day						
Archit. Coating	250.0768					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
<b>Total</b>	<b>250.4453</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>			<b>282.1449</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	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	0.0335	0.0388	0.4672	1.1300e-003	0.0849	7.5000e-004	0.0856	0.0225	6.9000e-004	0.0232		95.1511	95.1511	4.7500e-003			95.2509
<b>Total</b>	<b>0.0335</b>	<b>0.0388</b>	<b>0.4672</b>	<b>1.1300e-003</b>	<b>0.0849</b>	<b>7.5000e-004</b>	<b>0.0856</b>	<b>0.0225</b>	<b>6.9000e-004</b>	<b>0.0232</b>		<b>95.1511</b>	<b>95.1511</b>	<b>4.7500e-003</b>			<b>95.2509</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						
Archit. Coating	250.0768					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332			282.1449
<b>Total</b>	<b>250.4453</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>			<b>282.1449</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	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	0.0335	0.0388	0.4672	1.1300e-003	0.0849	7.5000e-004	0.0856	0.0225	6.9000e-004	0.0232		95.1511	95.1511	4.7500e-003			95.2509
<b>Total</b>	<b>0.0335</b>	<b>0.0388</b>	<b>0.4672</b>	<b>1.1300e-003</b>	<b>0.0849</b>	<b>7.5000e-004</b>	<b>0.0856</b>	<b>0.0225</b>	<b>6.9000e-004</b>	<b>0.0232</b>		<b>95.1511</b>	<b>95.1511</b>	<b>4.7500e-003</b>			<b>95.2509</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	250.0768					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
<b>Total</b>	<b>250.4091</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>			<b>282.0721</b>



### 3.7 Architectural Coating - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	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	0.0304	0.0351	0.4241	1.1300e-003	0.0849	7.2000e-004	0.0856	0.0225	6.7000e-004	0.0232		91.5164	91.5164	4.3900e-003		91.6087
<b>Total</b>	<b>0.0304</b>	<b>0.0351</b>	<b>0.4241</b>	<b>1.1300e-003</b>	<b>0.0849</b>	<b>7.2000e-004</b>	<b>0.0856</b>	<b>0.0225</b>	<b>6.7000e-004</b>	<b>0.0232</b>		<b>91.5164</b>	<b>91.5164</b>	<b>4.3900e-003</b>		<b>91.6087</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					
Archit. Coating	250.0768					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.0721
<b>Total</b>	<b>250.4091</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>		<b>282.0721</b>

### 3.7 Architectural Coating - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	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	0.0304	0.0351	0.4241	1.1300e-003	0.0849	7.2000e-004	0.0856	0.0225	6.7000e-004	0.0232		91.5164	91.5164	4.3900e-003		91.6087
<b>Total</b>	<b>0.0304</b>	<b>0.0351</b>	<b>0.4241</b>	<b>1.1300e-003</b>	<b>0.0849</b>	<b>7.2000e-004</b>	<b>0.0856</b>	<b>0.0225</b>	<b>6.7000e-004</b>	<b>0.0232</b>		<b>91.5164</b>	<b>91.5164</b>	<b>4.3900e-003</b>		<b>91.6087</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	27.5250	34.1674	322.0198	2.4517	3.9130	0.4210	4.3340	1.1289	0.4210	1.5499		6,786.3202	6,786.3202	1.9553		6,827.3806
Unmitigated	27.5250	34.1674	322.0198	2.4517	3.9130	0.4210	4.3340	1.1289	0.4210	1.5499		6,786.3202	6,786.3202	1.9553		6,827.3806

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	800.04	800.04	800.04	2,031,743	2,031,743
<b>Total</b>	<b>800.04</b>	<b>800.04</b>	<b>800.04</b>	<b>2,031,743</b>	<b>2,031,743</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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 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	0.0866	0.7869	0.6610	4.7200e-003		0.0598	0.0598		0.0598	0.0598		944.3037	944.3037	0.0181	0.0173	950.0506
NaturalGas Unmitigated	0.0866	0.7869	0.6610	4.7200e-003		0.0598	0.0598		0.0598	0.0598		944.3037	944.3037	0.0181	0.0173	950.0506

### 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					
Junior College (2Yr)	8026.58	0.0866	0.7869	0.6610	4.7200e-003		0.0598	0.0598		0.0598	0.0598		944.3037	944.3037	0.0181	0.0173	950.0506
<b>Total</b>		<b>0.0866</b>	<b>0.7869</b>	<b>0.6610</b>	<b>4.7200e-003</b>		<b>0.0598</b>	<b>0.0598</b>		<b>0.0598</b>	<b>0.0598</b>		<b>944.3037</b>	<b>944.3037</b>	<b>0.0181</b>	<b>0.0173</b>	<b>950.0506</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					
Junior College (2Yr)	8.02658	0.0866	0.7869	0.6610	4.7200e-003		0.0598	0.0598		0.0598	0.0598		944.3037	944.3037	0.0181	0.0173	950.0506
<b>Total</b>		<b>0.0866</b>	<b>0.7869</b>	<b>0.6610</b>	<b>4.7200e-003</b>		<b>0.0598</b>	<b>0.0598</b>		<b>0.0598</b>	<b>0.0598</b>		<b>944.3037</b>	<b>944.3037</b>	<b>0.0181</b>	<b>0.0173</b>	<b>950.0506</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	2.9991	1.3000e-004	0.0360	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0236	0.0236	4.5000e-004		0.0330
Unmitigated	2.9991	1.3000e-004	0.0360	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0236	0.0236	4.5000e-004		0.0330

## 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	0.6851					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3092					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7300e-003	1.3000e-004	0.0360	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0236	0.0236	4.5000e-004		0.0330
<b>Total</b>	<b>2.9991</b>	<b>1.3000e-004</b>	<b>0.0360</b>	<b>1.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0236</b>	<b>0.0236</b>	<b>4.5000e-004</b>		<b>0.0330</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	lb/day										lb/day					
Consumer Products	2.3092					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7300e-003	1.3000e-004	0.0360	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0236	0.0236	4.5000e-004		0.0330
Architectural Coating	0.6851					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.9991</b>	<b>1.3000e-004</b>	<b>0.0360</b>	<b>1.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>0.0236</b>	<b>0.0236</b>	<b>4.5000e-004</b>		<b>0.0330</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 9**  
**San Francisco County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	27.00	Dwelling Unit	0.71	27,000.00	47

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fireplaces or wood stoves.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,850.00	8,890.00
tblArchitecturalCoating	ConstArea_Residential_Interior	44,550.00	26,671.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	12.10	0.00
tblFireplaces	NumberNoFireplace	6.82	0.00
tblFireplaces	NumberWood	3.08	0.00
tblLandUse	Population	77.00	47.00
tblProjectCharacteristics	OperationalYear	2014	1990
tblSolidWaste	SolidWasteGenerationRate	10.12	6.06
tblTripsAndVMT	VendorTripNumber	2.00	1.00
tblTripsAndVMT	WorkerTripNumber	16.00	9.00
tblTripsAndVMT	WorkerTripNumber	3.00	2.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	1,433,388.56	858,078.52
tblWater	OutdoorWaterUseRate	903,658.01	540,962.54
tblWoodstoves	NumberCatalytic	0.11	0.00
tblWoodstoves	NumberNoncatalytic	0.11	0.00

## 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	lb/day										lb/day					
Area	1.0262	0.0339	5.0226	1.7600e-003		5.5900e-003	5.5900e-003		5.5900e-003	5.5900e-003	0.0000	4.0109	4.0109	0.0285	0.0000	4.6087
Energy	5.6300e-003	0.0481	0.0205	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003		61.4038	61.4038	1.1800e-003	1.1300e-003	61.7775
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>1.0319</b>	<b>0.0820</b>	<b>5.0430</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>9.4800e-003</b>	<b>9.4800e-003</b>	<b>0.0000</b>	<b>9.4800e-003</b>	<b>9.4800e-003</b>	<b>0.0000</b>	<b>65.4147</b>	<b>65.4147</b>	<b>0.0297</b>	<b>1.1300e-003</b>	<b>66.3862</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	1.0262	0.0339	5.0226	1.7600e-003		5.5900e-003	5.5900e-003		5.5900e-003	5.5900e-003	0.0000	4.0109	4.0109	0.0285	0.0000	4.6087
Energy	5.6300e-003	0.0481	0.0205	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003		61.4038	61.4038	1.1800e-003	1.1300e-003	61.7775
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>1.0319</b>	<b>0.0820</b>	<b>5.0430</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>9.4800e-003</b>	<b>9.4800e-003</b>	<b>0.0000</b>	<b>9.4800e-003</b>	<b>9.4800e-003</b>	<b>0.0000</b>	<b>65.4147</b>	<b>65.4147</b>	<b>0.0297</b>	<b>1.1300e-003</b>	<b>66.3862</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 26,671; Residential Outdoor: 8,890; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	9.00	1.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

**3.2 Demolition - 2016****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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>		<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>

### 3.3 Site Preparation - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>	<b>0.0000</b>	<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.4 Grading - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>		<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0126	0.0948	0.1515	2.3000e-004	6.6000e-003	1.4200e-003	8.0200e-003	1.8800e-003	1.3000e-003	3.1800e-003		22.9808	22.9808	1.8000e-004		22.9846
Worker	0.0335	0.0388	0.4672	1.1300e-003	0.0849	7.5000e-004	0.0856	0.0225	6.9000e-004	0.0232		95.1511	95.1511	4.7500e-003		95.2509
<b>Total</b>	<b>0.0460</b>	<b>0.1336</b>	<b>0.6187</b>	<b>1.3600e-003</b>	<b>0.0915</b>	<b>2.1700e-003</b>	<b>0.0936</b>	<b>0.0244</b>	<b>1.9900e-003</b>	<b>0.0264</b>		<b>118.1319</b>	<b>118.1319</b>	<b>4.9300e-003</b>		<b>118.2355</b>

### 3.5 Building Construction - 2016

#### 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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>	<b>0.0000</b>	<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0126	0.0948	0.1515	2.3000e-004	6.6000e-003	1.4200e-003	8.0200e-003	1.8800e-003	1.3000e-003	3.1800e-003		22.9808	22.9808	1.8000e-004		22.9846
Worker	0.0335	0.0388	0.4672	1.1300e-003	0.0849	7.5000e-004	0.0856	0.0225	6.9000e-004	0.0232		95.1511	95.1511	4.7500e-003		95.2509
<b>Total</b>	<b>0.0460</b>	<b>0.1336</b>	<b>0.6187</b>	<b>1.3600e-003</b>	<b>0.0915</b>	<b>2.1700e-003</b>	<b>0.0936</b>	<b>0.0244</b>	<b>1.9900e-003</b>	<b>0.0264</b>		<b>118.1319</b>	<b>118.1319</b>	<b>4.9300e-003</b>		<b>118.2355</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	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>		<b>1,083.5832</b>	<b>1,083.5832</b>	<b>0.2969</b>		<b>1,089.8175</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</b>

### 3.6 Paving - 2016

#### 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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>	<b>0.0000</b>	<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day					
Archit. Coating	82.4126					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>82.7811</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</b>

### 3.7 Architectural Coating - 2016

#### 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	82.4126					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>82.7811</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</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
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.6300e-003	0.0481	0.0205	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003		61.4038	61.4038	1.1800e-003	1.1300e-003	61.7775
NaturalGas Unmitigated	5.6300e-003	0.0481	0.0205	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003		61.4038	61.4038	1.1800e-003	1.1300e-003	61.7775

### 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					
Apartments Mid Rise	521.932	5.6300e-003	0.0481	0.0205	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003		61.4038	61.4038	1.1800e-003	1.1300e-003	61.7775
<b>Total</b>		<b>5.6300e-003</b>	<b>0.0481</b>	<b>0.0205</b>	<b>3.1000e-004</b>		<b>3.8900e-003</b>	<b>3.8900e-003</b>		<b>3.8900e-003</b>	<b>3.8900e-003</b>		<b>61.4038</b>	<b>61.4038</b>	<b>1.1800e-003</b>	<b>1.1300e-003</b>	<b>61.7775</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					
Apartments Mid Rise	0.521932	5.6300e-003	0.0481	0.0205	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003		61.4038	61.4038	1.1800e-003	1.1300e-003	61.7775
<b>Total</b>		<b>5.6300e-003</b>	<b>0.0481</b>	<b>0.0205</b>	<b>3.1000e-004</b>		<b>3.8900e-003</b>	<b>3.8900e-003</b>		<b>3.8900e-003</b>	<b>3.8900e-003</b>		<b>61.4038</b>	<b>61.4038</b>	<b>1.1800e-003</b>	<b>1.1300e-003</b>	<b>61.7775</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	1.0262	0.0339	5.0226	1.7600e-003		5.5900e-003	5.5900e-003		5.5900e-003	5.5900e-003	0.0000	4.0109	4.0109	0.0285	0.0000	4.6087
Unmitigated	1.0262	0.0339	5.0226	1.7600e-003		5.5900e-003	5.5900e-003		5.5900e-003	5.5900e-003	0.0000	4.0109	4.0109	0.0285	0.0000	4.6087

### 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	0.1886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5778					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2598	0.0339	5.0226	1.7600e-003		5.5900e-003	5.5900e-003		5.5900e-003	5.5900e-003		4.0109	4.0109	0.0285		4.6087
<b>Total</b>	<b>1.0262</b>	<b>0.0339</b>	<b>5.0226</b>	<b>1.7600e-003</b>		<b>5.5900e-003</b>	<b>5.5900e-003</b>		<b>5.5900e-003</b>	<b>5.5900e-003</b>	<b>0.0000</b>	<b>4.0109</b>	<b>4.0109</b>	<b>0.0285</b>	<b>0.0000</b>	<b>4.6087</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	lb/day										lb/day					
Architectural Coating	0.1886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5778					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2598	0.0339	5.0226	1.7600e-003		5.5900e-003	5.5900e-003		5.5900e-003	5.5900e-003		4.0109	4.0109	0.0285		4.6087
<b>Total</b>	<b>1.0262</b>	<b>0.0339</b>	<b>5.0226</b>	<b>1.7600e-003</b>		<b>5.5900e-003</b>	<b>5.5900e-003</b>		<b>5.5900e-003</b>	<b>5.5900e-003</b>	<b>0.0000</b>	<b>4.0109</b>	<b>4.0109</b>	<b>0.0285</b>	<b>0.0000</b>	<b>4.6087</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
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## 10.0 Vegetation

**AAU Existing Site 11**  
**San Francisco County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	15.00	Dwelling Unit	0.39	15,000.00	37

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 - Population adjusted according to information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fireplaces or wood burning stoves.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	10,125.00	7,058.00
tblArchitecturalCoating	ConstArea_Residential_Interior	30,375.00	21,173.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	8.25	0.00
tblFireplaces	NumberNoFireplace	4.65	0.00
tblFireplaces	NumberWood	2.10	0.00
tblLandUse	Population	43.00	37.00
tblProjectCharacteristics	OperationalYear	2014	1990
tblSolidWaste	SolidWasteGenerationRate	6.90	4.81
tblTripsAndVMT	VendorTripNumber	2.00	1.00
tblTripsAndVMT	WorkerTripNumber	11.00	8.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	977,310.38	681,511.11
tblWater	OutdoorWaterUseRate	616,130.46	429,648.31
tblWoodstoves	NumberCatalytic	0.08	0.00
tblWoodstoves	NumberNoncatalytic	0.08	0.00

## 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	lb/day										lb/day					
Area	0.5939	0.0188	2.7903	9.8000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003	0.0000	2.2283	2.2283	0.0158	0.0000	2.5604
Energy	3.1300e-003	0.0267	0.0114	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1132	34.1132	6.5000e-004	6.3000e-004	34.3208
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>0.5971</b>	<b>0.0456</b>	<b>2.8017</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>5.2700e-003</b>	<b>5.2700e-003</b>	<b>0.0000</b>	<b>5.2700e-003</b>	<b>5.2700e-003</b>	<b>0.0000</b>	<b>36.3415</b>	<b>36.3415</b>	<b>0.0165</b>	<b>6.3000e-004</b>	<b>36.8812</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	0.5939	0.0188	2.7903	9.8000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003	0.0000	2.2283	2.2283	0.0158	0.0000	2.5604
Energy	3.1300e-003	0.0267	0.0114	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1132	34.1132	6.5000e-004	6.3000e-004	34.3208
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>0.5971</b>	<b>0.0456</b>	<b>2.8017</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>5.2700e-003</b>	<b>5.2700e-003</b>	<b>0.0000</b>	<b>5.2700e-003</b>	<b>5.2700e-003</b>	<b>0.0000</b>	<b>36.3415</b>	<b>36.3415</b>	<b>0.0165</b>	<b>6.3000e-004</b>	<b>36.8812</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 21,173; Residential Outdoor: 7,058; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	8.00	1.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.2 Demolition - 2016

#### 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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>		<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>

### 3.3 Site Preparation - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>	<b>0.0000</b>	<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>



### 3.4 Grading - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>		<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0126	0.0948	0.1515	2.3000e-004	6.6000e-003	1.4200e-003	8.0200e-003	1.8800e-003	1.3000e-003	3.1800e-003		22.9808	22.9808	1.8000e-004		22.9846
Worker	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003		84.6675
<b>Total</b>	<b>0.0423</b>	<b>0.1293</b>	<b>0.5668</b>	<b>1.2400e-003</b>	<b>0.0820</b>	<b>2.0800e-003</b>	<b>0.0841</b>	<b>0.0219</b>	<b>1.9100e-003</b>	<b>0.0238</b>		<b>107.5596</b>	<b>107.5596</b>	<b>4.4000e-003</b>		<b>107.6521</b>

### 3.5 Building Construction - 2016

#### 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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>	<b>0.0000</b>	<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0126	0.0948	0.1515	2.3000e-004	6.6000e-003	1.4200e-003	8.0200e-003	1.8800e-003	1.3000e-003	3.1800e-003		22.9808	22.9808	1.8000e-004		22.9846
Worker	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003		84.6675
<b>Total</b>	<b>0.0423</b>	<b>0.1293</b>	<b>0.5668</b>	<b>1.2400e-003</b>	<b>0.0820</b>	<b>2.0800e-003</b>	<b>0.0841</b>	<b>0.0219</b>	<b>1.9100e-003</b>	<b>0.0238</b>		<b>107.5596</b>	<b>107.5596</b>	<b>4.4000e-003</b>		<b>107.6521</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	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>		<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</b>

### 3.6 Paving - 2016

#### 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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>	<b>0.0000</b>	<b>1,083.5832</b>	<b>1,083.5832</b>	<b>0.2969</b>		<b>1,089.8175</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day					
Archit. Coating	65.4253					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>65.7938</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</b>

### 3.7 Architectural Coating - 2016

#### 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	65.4253					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>65.7938</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</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
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N



### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.1300e-003	0.0267	0.0114	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1132	34.1132	6.5000e-004	6.3000e-004	34.3208
NaturalGas Unmitigated	3.1300e-003	0.0267	0.0114	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1132	34.1132	6.5000e-004	6.3000e-004	34.3208

### 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					
Apartments Mid Rise	289.962	3.1300e-003	0.0267	0.0114	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1132	34.1132	6.5000e-004	6.3000e-004	34.3208
<b>Total</b>		<b>3.1300e-003</b>	<b>0.0267</b>	<b>0.0114</b>	<b>1.7000e-004</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>34.1132</b>	<b>34.1132</b>	<b>6.5000e-004</b>	<b>6.3000e-004</b>	<b>34.3208</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					
Apartments Mid Rise	0.289962	3.1300e-003	0.0267	0.0114	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1132	34.1132	6.5000e-004	6.3000e-004	34.3208
<b>Total</b>		<b>3.1300e-003</b>	<b>0.0267</b>	<b>0.0114</b>	<b>1.7000e-004</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>34.1132</b>	<b>34.1132</b>	<b>6.5000e-004</b>	<b>6.3000e-004</b>	<b>34.3208</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	0.5939	0.0188	2.7903	9.8000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003	0.0000	2.2283	2.2283	0.0158	0.0000	2.5604
Unmitigated	0.5939	0.0188	2.7903	9.8000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003	0.0000	2.2283	2.2283	0.0158	0.0000	2.5604

### 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	0.1286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3210					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1444	0.0188	2.7903	9.8000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		2.2283	2.2283	0.0158		2.5604
<b>Total</b>	<b>0.5939</b>	<b>0.0188</b>	<b>2.7903</b>	<b>9.8000e-004</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>2.2283</b>	<b>2.2283</b>	<b>0.0158</b>	<b>0.0000</b>	<b>2.5604</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	lb/day										lb/day					
Architectural Coating	0.1286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3210					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1444	0.0188	2.7903	9.8000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		2.2283	2.2283	0.0158		2.5604
<b>Total</b>	<b>0.5939</b>	<b>0.0188</b>	<b>2.7903</b>	<b>9.8000e-004</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>		<b>3.1100e-003</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>2.2283</b>	<b>2.2283</b>	<b>0.0158</b>	<b>0.0000</b>	<b>2.5604</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
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## 10.0 Vegetation

**AAU Existing Site 12**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	42.00	Dwelling Unit	1.11	42,000.00	122

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Population adjusted according to updated information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fire places or wood burning stoves.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	28,350.00	16,556.00
tblArchitecturalCoating	ConstArea_Residential_Interior	85,050.00	49,669.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00

tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	200.00	100.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	4.00	2.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	2.00	1.00
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	23.10	0.00
tblFireplaces	NumberNoFireplace	13.02	0.00
tblFireplaces	NumberWood	5.88	0.00
tblLandUse	Population	120.00	122.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00

tblProjectCharacteristics	OperationalYear	2014	1990
tblSolidWaste	SolidWasteGenerationRate	19.32	11.28
tblTripsAndVMT	VendorTripNumber	4.00	3.00
tblTripsAndVMT	WorkerTripNumber	30.00	18.00
tblTripsAndVMT	WorkerTripNumber	6.00	4.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	2,736,469.08	1,598,228.25
tblWater	OutdoorWaterUseRate	1,725,165.29	1,007,578.68
tblWoodstoves	NumberCatalytic	0.21	0.00
tblWoodstoves	NumberNoncatalytic	0.21	0.00

## 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	lb/day										lb/day					
Area	1.6630	0.0527	7.8129	2.7500e-003		8.7000e-003	8.7000e-003		8.7000e-003	8.7000e-003	0.0000	6.2392	6.2392	0.0443	0.0000	7.1691
Energy	8.7600e-003	0.0748	0.0318	4.8000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003		95.5170	95.5170	1.8300e-003	1.7500e-003	96.0983
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>1.6718</b>	<b>0.1276</b>	<b>7.8447</b>	<b>3.2300e-003</b>	<b>0.0000</b>	<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>101.7562</b>	<b>101.7562</b>	<b>0.0461</b>	<b>1.7500e-003</b>	<b>103.2674</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	1.6630	0.0527	7.8129	2.7500e-003		8.7000e-003	8.7000e-003		8.7000e-003	8.7000e-003	0.0000	6.2392	6.2392	0.0443	0.0000	7.1691
Energy	8.7600e-003	0.0748	0.0318	4.8000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003		95.5170	95.5170	1.8300e-003	1.7500e-003	96.0983
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>1.6718</b>	<b>0.1276</b>	<b>7.8447</b>	<b>3.2300e-003</b>	<b>0.0000</b>	<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>101.7562</b>	<b>101.7562</b>	<b>0.0461</b>	<b>1.7500e-003</b>	<b>103.2674</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 49,669; Residential Outdoor: 16,556; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	18.00	3.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.2 Demolition - 2016

#### 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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>		<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>

### 3.3 Site Preparation - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>	<b>0.0000</b>	<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>



**3.4 Grading - 2016****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>		<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0377	0.2844	0.4544	6.9000e-004	0.0198	4.2500e-003	0.0241	5.6500e-003	3.9000e-003	9.5500e-003		68.9424	68.9424	5.4000e-004		68.9537
Worker	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.1046</b>	<b>0.3620</b>	<b>1.3888</b>	<b>2.9500e-003</b>	<b>0.1896</b>	<b>5.7500e-003</b>	<b>0.1953</b>	<b>0.0507</b>	<b>5.2800e-003</b>	<b>0.0560</b>		<b>259.2446</b>	<b>259.2446</b>	<b>0.0101</b>		<b>259.4555</b>

### 3.5 Building Construction - 2016

#### 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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>	<b>0.0000</b>	<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0377	0.2844	0.4544	6.9000e-004	0.0198	4.2500e-003	0.0241	5.6500e-003	3.9000e-003	9.5500e-003		68.9424	68.9424	5.4000e-004		68.9537
Worker	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.1046</b>	<b>0.3620</b>	<b>1.3888</b>	<b>2.9500e-003</b>	<b>0.1896</b>	<b>5.7500e-003</b>	<b>0.1953</b>	<b>0.0507</b>	<b>5.2800e-003</b>	<b>0.0560</b>		<b>259.2446</b>	<b>259.2446</b>	<b>0.0101</b>		<b>259.4555</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	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>		<b>1,083.5832</b>	<b>1,083.5832</b>	<b>0.2969</b>		<b>1,089.8175</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</b>

### 3.6 Paving - 2016

#### 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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>	<b>0.0000</b>	<b>1,083.5832</b>	<b>1,083.5832</b>	<b>0.2969</b>		<b>1,089.8175</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day					
Archit. Coating	153.4764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>153.8449</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	0.0149	0.0172	0.2076	5.0000e-004	0.0377	3.3000e-004	0.0381	0.0100	3.1000e-004	0.0103		42.2894	42.2894	2.1100e-003		42.3337
<b>Total</b>	<b>0.0149</b>	<b>0.0172</b>	<b>0.2076</b>	<b>5.0000e-004</b>	<b>0.0377</b>	<b>3.3000e-004</b>	<b>0.0381</b>	<b>0.0100</b>	<b>3.1000e-004</b>	<b>0.0103</b>		<b>42.2894</b>	<b>42.2894</b>	<b>2.1100e-003</b>		<b>42.3337</b>

### 3.7 Architectural Coating - 2016

#### 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	153.4764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>153.8449</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	0.0149	0.0172	0.2076	5.0000e-004	0.0377	3.3000e-004	0.0381	0.0100	3.1000e-004	0.0103		42.2894	42.2894	2.1100e-003		42.3337
<b>Total</b>	<b>0.0149</b>	<b>0.0172</b>	<b>0.2076</b>	<b>5.0000e-004</b>	<b>0.0377</b>	<b>3.3000e-004</b>	<b>0.0381</b>	<b>0.0100</b>	<b>3.1000e-004</b>	<b>0.0103</b>		<b>42.2894</b>	<b>42.2894</b>	<b>2.1100e-003</b>		<b>42.3337</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
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N



### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.7600e-003	0.0748	0.0318	4.8000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003		95.5170	95.5170	1.8300e-003	1.7500e-003	96.0983
NaturalGas Unmitigated	8.7600e-003	0.0748	0.0318	4.8000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003		95.5170	95.5170	1.8300e-003	1.7500e-003	96.0983

### 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					
Apartments Mid Rise	811.895	8.7600e-003	0.0748	0.0318	4.8000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003		95.5170	95.5170	1.8300e-003	1.7500e-003	96.0983
<b>Total</b>		<b>8.7600e-003</b>	<b>0.0748</b>	<b>0.0318</b>	<b>4.8000e-004</b>		<b>6.0500e-003</b>	<b>6.0500e-003</b>		<b>6.0500e-003</b>	<b>6.0500e-003</b>		<b>95.5170</b>	<b>95.5170</b>	<b>1.8300e-003</b>	<b>1.7500e-003</b>	<b>96.0983</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					
Apartments Mid Rise	0.811895	8.7600e-003	0.0748	0.0318	4.8000e-004		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003		95.5170	95.5170	1.8300e-003	1.7500e-003	96.0983
<b>Total</b>		<b>8.7600e-003</b>	<b>0.0748</b>	<b>0.0318</b>	<b>4.8000e-004</b>		<b>6.0500e-003</b>	<b>6.0500e-003</b>		<b>6.0500e-003</b>	<b>6.0500e-003</b>		<b>95.5170</b>	<b>95.5170</b>	<b>1.8300e-003</b>	<b>1.7500e-003</b>	<b>96.0983</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	1.6630	0.0527	7.8129	2.7500e-003		8.7000e-003	8.7000e-003		8.7000e-003	8.7000e-003	0.0000	6.2392	6.2392	0.0443	0.0000	7.1691
Unmitigated	1.6630	0.0527	7.8129	2.7500e-003		8.7000e-003	8.7000e-003		8.7000e-003	8.7000e-003	0.0000	6.2392	6.2392	0.0443	0.0000	7.1691

## 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	0.3600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8988					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4042	0.0527	7.8129	2.7500e-003		8.7000e-003	8.7000e-003		8.7000e-003	8.7000e-003		6.2392	6.2392	0.0443		7.1691
<b>Total</b>	<b>1.6630</b>	<b>0.0527</b>	<b>7.8129</b>	<b>2.7500e-003</b>		<b>8.7000e-003</b>	<b>8.7000e-003</b>		<b>8.7000e-003</b>	<b>8.7000e-003</b>	<b>0.0000</b>	<b>6.2392</b>	<b>6.2392</b>	<b>0.0443</b>	<b>0.0000</b>	<b>7.1691</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	lb/day										lb/day					
Architectural Coating	0.3600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8988					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4042	0.0527	7.8129	2.7500e-003		8.7000e-003	8.7000e-003		8.7000e-003	8.7000e-003		6.2392	6.2392	0.0443		7.1691
<b>Total</b>	<b>1.6630</b>	<b>0.0527</b>	<b>7.8129</b>	<b>2.7500e-003</b>		<b>8.7000e-003</b>	<b>8.7000e-003</b>		<b>8.7000e-003</b>	<b>8.7000e-003</b>	<b>0.0000</b>	<b>6.2392</b>	<b>6.2392</b>	<b>0.0443</b>	<b>0.0000</b>	<b>7.1691</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 13**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	87.00	Dwelling Unit	2.29	87,000.00	184

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2000
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fireplaces or wood burning stoves.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	60,075.00	23,822.00
tblArchitecturalCoating	ConstArea_Residential_Interior	180,225.00	71,466.00

tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	220.00	100.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	6.00	2.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	3.00	1.00
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	48.95	0.00
tblFireplaces	NumberNoFireplace	27.59	0.00
tblFireplaces	NumberWood	12.46	0.00
tblLandUse	Population	249.00	184.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2000
tblSolidWaste	SolidWasteGenerationRate	40.94	16.23
tblTripsAndVMT	VendorTripNumber	10.00	4.00
tblTripsAndVMT	WorkerTripNumber	64.00	25.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	5,798,708.28	2,299,285.56
tblWater	OutdoorWaterUseRate	3,655,707.39	1,449,549.59
tblWoodstoves	NumberCatalytic	0.45	0.00
tblWoodstoves	NumberNoncatalytic	0.45	0.00

## 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	lb/day										lb/day					
Area	3.1797	0.0927	10.7002	5.4000e-004		0.0324	0.0324		0.0324	0.0324	0.0000	12.9241	12.9241	0.0310	0.0000	13.5746
Energy	0.0181	0.1550	0.0660	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.8567	197.8567	3.7900e-003	3.6300e-003	199.0608
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>3.1978</b>	<b>0.2477</b>	<b>10.7661</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>0.0450</b>	<b>0.0450</b>	<b>0.0000</b>	<b>0.0450</b>	<b>0.0450</b>	<b>0.0000</b>	<b>210.7807</b>	<b>210.7807</b>	<b>0.0348</b>	<b>3.6300e-003</b>	<b>212.6354</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	3.1797	0.0927	10.7002	5.4000e-004		0.0324	0.0324		0.0324	0.0324	0.0000	12.9241	12.9241	0.0310	0.0000	13.5746
Energy	0.0181	0.1550	0.0660	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.8567	197.8567	3.7900e-003	3.6300e-003	199.0608
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>3.1978</b>	<b>0.2477</b>	<b>10.7661</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>0.0450</b>	<b>0.0450</b>	<b>0.0000</b>	<b>0.0450</b>	<b>0.0450</b>	<b>0.0000</b>	<b>210.7807</b>	<b>210.7807</b>	<b>0.0348</b>	<b>3.6300e-003</b>	<b>212.6354</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 71,466; Residential Outdoor: 23,822; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	25.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.2 Demolition - 2016

#### 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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>		<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>

### 3.3 Site Preparation - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>	<b>0.0000</b>	<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>



**3.4 Grading - 2016****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>		<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0503	0.3793	0.6058	9.2000e-004	0.0264	5.6600e-003	0.0321	7.5300e-003	5.2000e-003	0.0127		91.9232	91.9232	7.2000e-004		91.9383
Worker	0.0929	0.1077	1.2978	3.1400e-003	0.2358	2.0800e-003	0.2378	0.0625	1.9100e-003	0.0644		264.3087	264.3087	0.0132		264.5859
<b>Total</b>	<b>0.1432</b>	<b>0.4870</b>	<b>1.9036</b>	<b>4.0600e-003</b>	<b>0.2622</b>	<b>7.7400e-003</b>	<b>0.2699</b>	<b>0.0701</b>	<b>7.1100e-003</b>	<b>0.0772</b>		<b>356.2318</b>	<b>356.2318</b>	<b>0.0139</b>		<b>356.5242</b>

### 3.5 Building Construction - 2016

#### 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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>	<b>0.0000</b>	<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0503	0.3793	0.6058	9.2000e-004	0.0264	5.6600e-003	0.0321	7.5300e-003	5.2000e-003	0.0127		91.9232	91.9232	7.2000e-004		91.9383
Worker	0.0929	0.1077	1.2978	3.1400e-003	0.2358	2.0800e-003	0.2378	0.0625	1.9100e-003	0.0644		264.3087	264.3087	0.0132		264.5859
<b>Total</b>	<b>0.1432</b>	<b>0.4870</b>	<b>1.9036</b>	<b>4.0600e-003</b>	<b>0.2622</b>	<b>7.7400e-003</b>	<b>0.2699</b>	<b>0.0701</b>	<b>7.1100e-003</b>	<b>0.0772</b>		<b>356.2318</b>	<b>356.2318</b>	<b>0.0139</b>		<b>356.5242</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	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>		<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</b>

### 3.6 Paving - 2016

#### 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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>	<b>0.0000</b>	<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day						
Archit. Coating	220.8299					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
<b>Total</b>	<b>221.1984</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>			<b>282.1449</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003			52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>			<b>52.9172</b>

### 3.7 Architectural Coating - 2016

#### 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	220.8299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>221.1984</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.630142	0.126516	0.135380	0.044811	0.004048	0.008281	0.028653	0.003029	0.001699	0.010368	0.005318	0.000926	0.000829

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N



### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0181	0.1550	0.0660	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.8567	197.8567	3.7900e-003	3.6300e-003	199.0608
NaturalGas Unmitigated	0.0181	0.1550	0.0660	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.8567	197.8567	3.7900e-003	3.6300e-003	199.0608

### 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					
Apartments Mid Rise	1681.78	0.0181	0.1550	0.0660	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.8567	197.8567	3.7900e-003	3.6300e-003	199.0608
<b>Total</b>		<b>0.0181</b>	<b>0.1550</b>	<b>0.0660</b>	<b>9.9000e-004</b>		<b>0.0125</b>	<b>0.0125</b>		<b>0.0125</b>	<b>0.0125</b>		<b>197.8567</b>	<b>197.8567</b>	<b>3.7900e-003</b>	<b>3.6300e-003</b>	<b>199.0608</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					
Apartments Mid Rise	1.68178	0.0181	0.1550	0.0660	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.8567	197.8567	3.7900e-003	3.6300e-003	199.0608
<b>Total</b>		<b>0.0181</b>	<b>0.1550</b>	<b>0.0660</b>	<b>9.9000e-004</b>		<b>0.0125</b>	<b>0.0125</b>		<b>0.0125</b>	<b>0.0125</b>		<b>197.8567</b>	<b>197.8567</b>	<b>3.7900e-003</b>	<b>3.6300e-003</b>	<b>199.0608</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	3.1797	0.0927	10.7002	5.4000e-004		0.0324	0.0324		0.0324	0.0324	0.0000	12.9241	12.9241	0.0310	0.0000	13.5746
Unmitigated	3.1797	0.0927	10.7002	5.4000e-004		0.0324	0.0324		0.0324	0.0324	0.0000	12.9241	12.9241	0.0310	0.0000	13.5746

## 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	0.7629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8618					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5550	0.0927	10.7002	5.4000e-004		0.0324	0.0324		0.0324	0.0324		12.9241	12.9241	0.0310		13.5746
<b>Total</b>	<b>3.1797</b>	<b>0.0927</b>	<b>10.7002</b>	<b>5.4000e-004</b>		<b>0.0324</b>	<b>0.0324</b>		<b>0.0324</b>	<b>0.0324</b>	<b>0.0000</b>	<b>12.9241</b>	<b>12.9241</b>	<b>0.0310</b>	<b>0.0000</b>	<b>13.5746</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	lb/day										lb/day					
Architectural Coating	0.7629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8618					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5550	0.0927	10.7002	5.4000e-004		0.0324	0.0324		0.0324	0.0324		12.9241	12.9241	0.0310		13.5746
<b>Total</b>	<b>3.1797</b>	<b>0.0927</b>	<b>10.7002</b>	<b>5.4000e-004</b>		<b>0.0324</b>	<b>0.0324</b>		<b>0.0324</b>	<b>0.0324</b>	<b>0.0000</b>	<b>12.9241</b>	<b>12.9241</b>	<b>0.0310</b>	<b>0.0000</b>	<b>13.5746</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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## AAU Existing Site 14 San Francisco County, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	114.00	Dwelling Unit	3.00	114,000.00	222

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2000
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assumed no fire places or wood stoves

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	76,950.00	35,093.00
tblArchitecturalCoating	ConstArea_Residential_Interior	230,850.00	105,280.00

tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_Nonresidential_Interior	0	77985
tblAreaCoating	Area_Residential_Exterior	76950	0
tblAreaCoating	Area_Residential_Interior	230850	0
tblConstructionPhase	NumDays	220.00	200.00
tblConstructionPhase	NumDays	6.00	4.00
tblConstructionPhase	NumDays	3.00	2.00
tblEnergyUse	T24E	312.05	234.04
tblFireplaces	NumberGas	62.70	0.00
tblFireplaces	NumberNoFireplace	35.34	0.00
tblFireplaces	NumberWood	15.96	0.00
tblLandUse	Population	326.00	222.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2000
tblTripsAndVMT	VendorTripNumber	12.00	6.00
tblTripsAndVMT	WorkerTripNumber	82.00	37.00
tblTripsAndVMT	WorkerTripNumber	16.00	7.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWoodstoves	NumberCatalytic	0.57	0.00
tblWoodstoves	NumberNoncatalytic	0.57	0.00

## 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	lb/day										lb/day					
Area	3.4144	0.1215	14.0209	7.0000e-004		0.0425	0.0425		0.0425	0.0425	0.0000	16.9350	16.9350	0.0406	0.0000	17.7874
Energy	0.0298	0.2548	0.1084	1.6300e-003		0.0206	0.0206		0.0206	0.0206		325.3242	325.3242	6.2400e-003	5.9600e-003	327.3041
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>3.4443</b>	<b>0.3763</b>	<b>14.1293</b>	<b>2.3300e-003</b>	<b>0.0000</b>	<b>0.0631</b>	<b>0.0631</b>	<b>0.0000</b>	<b>0.0631</b>	<b>0.0631</b>	<b>0.0000</b>	<b>342.2592</b>	<b>342.2592</b>	<b>0.0468</b>	<b>5.9600e-003</b>	<b>345.0915</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	3.4144	0.1215	14.0209	7.0000e-004		0.0425	0.0425		0.0425	0.0425	0.0000	16.9350	16.9350	0.0406	0.0000	17.7874
Energy	0.0298	0.2548	0.1084	1.6300e-003		0.0206	0.0206		0.0206	0.0206		325.3242	325.3242	6.2400e-003	5.9600e-003	327.3041
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>3.4443</b>	<b>0.3763</b>	<b>14.1293</b>	<b>2.3300e-003</b>	<b>0.0000</b>	<b>0.0631</b>	<b>0.0631</b>	<b>0.0000</b>	<b>0.0631</b>	<b>0.0631</b>	<b>0.0000</b>	<b>342.2592</b>	<b>342.2592</b>	<b>0.0468</b>	<b>5.9600e-003</b>	<b>345.0915</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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/1/2016	5	2	
3	Grading	Grading	2/2/2016	2/5/2016	5	4	
4	Building Construction	Building Construction	2/6/2016	11/11/2016	5	200	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 105,280; Residential Outdoor: 35,093; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
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
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	37.00	6.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328		2,487.1296	2,487.1296	0.6288		2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>		<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>		<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328	0.0000	2,487.1296	2,487.1296	0.6288			2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>	<b>0.0000</b>	<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>			<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</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	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	2.4428	25.7718	16.5144	0.0171		1.3985	1.3985		1.2866	1.2866		1,781.087 2	1,781.087 2	0.5372		1,792.369 3
<b>Total</b>	<b>2.4428</b>	<b>25.7718</b>	<b>16.5144</b>	<b>0.0171</b>	<b>5.7996</b>	<b>1.3985</b>	<b>7.1981</b>	<b>2.9537</b>	<b>1.2866</b>	<b>4.2403</b>		<b>1,781.087 2</b>	<b>1,781.087 2</b>	<b>0.5372</b>		<b>1,792.369 3</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003		84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>		<b>84.6675</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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	2.4428	25.7718	16.5144	0.0171		1.3985	1.3985		1.2866	1.2866	0.0000	1,781.087 2	1,781.087 2	0.5372		1,792.369 3
<b>Total</b>	<b>2.4428</b>	<b>25.7718</b>	<b>16.5144</b>	<b>0.0171</b>	<b>5.7996</b>	<b>1.3985</b>	<b>7.1981</b>	<b>2.9537</b>	<b>1.2866</b>	<b>4.2403</b>	<b>0.0000</b>	<b>1,781.087 2</b>	<b>1,781.087 2</b>	<b>0.5372</b>		<b>1,792.369 3</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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	lb/day										lb/day						
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000	
Off-Road	1.9908	21.0361	13.6704	0.0141		1.1407	1.1407		1.0494	1.0494		1,462.8468	1,462.8468	0.4413			1,472.1130
<b>Total</b>	<b>1.9908</b>	<b>21.0361</b>	<b>13.6704</b>	<b>0.0141</b>	<b>4.9143</b>	<b>1.1407</b>	<b>6.0549</b>	<b>2.5256</b>	<b>1.0494</b>	<b>3.5750</b>		<b>1,462.8468</b>	<b>1,462.8468</b>	<b>0.4413</b>			<b>1,472.1130</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003		84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>		<b>84.6675</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					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.9908	21.0361	13.6704	0.0141		1.1407	1.1407		1.0494	1.0494	0.0000	1,462.8468	1,462.8468	0.4413		1,472.1130
<b>Total</b>	<b>1.9908</b>	<b>21.0361</b>	<b>13.6704</b>	<b>0.0141</b>	<b>4.9143</b>	<b>1.1407</b>	<b>6.0549</b>	<b>2.5256</b>	<b>1.0494</b>	<b>3.5750</b>	<b>0.0000</b>	<b>1,462.8468</b>	<b>1,462.8468</b>	<b>0.4413</b>		<b>1,472.1130</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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	lb/day										lb/day						
Off-Road	3.2915	20.5459	14.7074	0.0220		1.3656	1.3656		1.3176	1.3176		2,046.9432	2,046.9432	0.4499			2,056.3913
<b>Total</b>	<b>3.2915</b>	<b>20.5459</b>	<b>14.7074</b>	<b>0.0220</b>		<b>1.3656</b>	<b>1.3656</b>		<b>1.3176</b>	<b>1.3176</b>		<b>2,046.9432</b>	<b>2,046.9432</b>	<b>0.4499</b>			<b>2,056.3913</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	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	0.0754	0.5689	0.9088	1.3800e-003	0.0396	8.5000e-003	0.0481	0.0113	7.8100e-003	0.0191		137.8848	137.8848	1.0800e-003			137.9074
Worker	0.1376	0.1594	1.9207	4.6500e-003	0.3489	3.0700e-003	0.3520	0.0925	2.8300e-003	0.0954		391.1768	391.1768	0.0195			391.5871
<b>Total</b>	<b>0.2130</b>	<b>0.7283</b>	<b>2.8295</b>	<b>6.0300e-003</b>	<b>0.3885</b>	<b>0.0116</b>	<b>0.4001</b>	<b>0.1038</b>	<b>0.0106</b>	<b>0.1145</b>		<b>529.0616</b>	<b>529.0616</b>	<b>0.0206</b>			<b>529.4945</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	3.2915	20.5459	14.7074	0.0220		1.3656	1.3656		1.3176	1.3176	0.0000	2,046.9432	2,046.9432	0.4499			2,056.3913
<b>Total</b>	<b>3.2915</b>	<b>20.5459</b>	<b>14.7074</b>	<b>0.0220</b>		<b>1.3656</b>	<b>1.3656</b>		<b>1.3176</b>	<b>1.3176</b>	<b>0.0000</b>	<b>2,046.9432</b>	<b>2,046.9432</b>	<b>0.4499</b>			<b>2,056.3913</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	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	0.0754	0.5689	0.9088	1.3800e-003	0.0396	8.5000e-003	0.0481	0.0113	7.8100e-003	0.0191		137.8848	137.8848	1.0800e-003			137.9074
Worker	0.1376	0.1594	1.9207	4.6500e-003	0.3489	3.0700e-003	0.3520	0.0925	2.8300e-003	0.0954		391.1768	391.1768	0.0195			391.5871
<b>Total</b>	<b>0.2130</b>	<b>0.7283</b>	<b>2.8295</b>	<b>6.0300e-003</b>	<b>0.3885</b>	<b>0.0116</b>	<b>0.4001</b>	<b>0.1038</b>	<b>0.0106</b>	<b>0.1145</b>		<b>529.0616</b>	<b>529.0616</b>	<b>0.0206</b>			<b>529.4945</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	lb/day										lb/day						
Off-Road	1.2872	13.2076	9.0880	0.0133		0.8075	0.8075		0.7438	0.7438		1,368.4366	1,368.4366	0.4053			1,376.9473
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.2872</b>	<b>13.2076</b>	<b>9.0880</b>	<b>0.0133</b>		<b>0.8075</b>	<b>0.8075</b>		<b>0.7438</b>	<b>0.7438</b>		<b>1,368.4366</b>	<b>1,368.4366</b>	<b>0.4053</b>			<b>1,376.9473</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</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	1.2872	13.2076	9.0880	0.0133		0.8075	0.8075		0.7438	0.7438	0.0000	1,368.4366	1,368.4366	0.4053			1,376.9473
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.2872</b>	<b>13.2076</b>	<b>9.0880</b>	<b>0.0133</b>		<b>0.8075</b>	<b>0.8075</b>		<b>0.7438</b>	<b>0.7438</b>	<b>0.0000</b>	<b>1,368.4366</b>	<b>1,368.4366</b>	<b>0.4053</b>			<b>1,376.9473</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</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	lb/day										lb/day						
Archit. Coating	162.6572					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
<b>Total</b>	<b>163.0257</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>			<b>282.1449</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	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	0.0260	0.0302	0.3634	8.8000e-004	0.0660	5.8000e-004	0.0666	0.0175	5.4000e-004	0.0180		74.0064	74.0064	3.7000e-003			74.0841
<b>Total</b>	<b>0.0260</b>	<b>0.0302</b>	<b>0.3634</b>	<b>8.8000e-004</b>	<b>0.0660</b>	<b>5.8000e-004</b>	<b>0.0666</b>	<b>0.0175</b>	<b>5.4000e-004</b>	<b>0.0180</b>		<b>74.0064</b>	<b>74.0064</b>	<b>3.7000e-003</b>			<b>74.0841</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						
Archit. Coating	162.6572					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332			282.1449
<b>Total</b>	<b>163.0257</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>			<b>282.1449</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	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	0.0260	0.0302	0.3634	8.8000e-004	0.0660	5.8000e-004	0.0666	0.0175	5.4000e-004	0.0180		74.0064	74.0064	3.7000e-003		74.0841
<b>Total</b>	<b>0.0260</b>	<b>0.0302</b>	<b>0.3634</b>	<b>8.8000e-004</b>	<b>0.0660</b>	<b>5.8000e-004</b>	<b>0.0666</b>	<b>0.0175</b>	<b>5.4000e-004</b>	<b>0.0180</b>		<b>74.0064</b>	<b>74.0064</b>	<b>3.7000e-003</b>		<b>74.0841</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
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.630142	0.126516	0.135380	0.044811	0.004048	0.008281	0.028653	0.003029	0.001699	0.010368	0.005318	0.000926	0.000829

### 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
NaturalGas Mitigated	0.0298	0.2548	0.1084	1.6300e-003		0.0206	0.0206		0.0206	0.0206		325.3242	325.3242	6.2400e-003	5.9600e-003	327.3041
NaturalGas Unmitigated	0.0298	0.2548	0.1084	1.6300e-003		0.0206	0.0206		0.0206	0.0206		325.3242	325.3242	6.2400e-003	5.9600e-003	327.3041

### 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					
Apartments Mid Rise	2765.26	0.0298	0.2548	0.1084	1.6300e-003		0.0206	0.0206		0.0206	0.0206		325.3242	325.3242	6.2400e-003	5.9600e-003	327.3041
<b>Total</b>		<b>0.0298</b>	<b>0.2548</b>	<b>0.1084</b>	<b>1.6300e-003</b>		<b>0.0206</b>	<b>0.0206</b>		<b>0.0206</b>	<b>0.0206</b>		<b>325.3242</b>	<b>325.3242</b>	<b>6.2400e-003</b>	<b>5.9600e-003</b>	<b>327.3041</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					
Apartments Mid Rise	2.76526	0.0298	0.2548	0.1084	1.6300e-003		0.0206	0.0206		0.0206	0.0206		325.3242	325.3242	6.2400e-003	5.9600e-003	327.3041
<b>Total</b>		<b>0.0298</b>	<b>0.2548</b>	<b>0.1084</b>	<b>1.6300e-003</b>		<b>0.0206</b>	<b>0.0206</b>		<b>0.0206</b>	<b>0.0206</b>		<b>325.3242</b>	<b>325.3242</b>	<b>6.2400e-003</b>	<b>5.9600e-003</b>	<b>327.3041</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	3.4144	0.1215	14.0209	7.0000e-004		0.0425	0.0425		0.0425	0.0425	0.0000	16.9350	16.9350	0.0406	0.0000	17.7874
Unmitigated	3.4144	0.1215	14.0209	7.0000e-004		0.0425	0.0425		0.0425	0.0425	0.0000	16.9350	16.9350	0.0406	0.0000	17.7874

## 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	0.2476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4396					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7273	0.1215	14.0209	7.0000e-004		0.0425	0.0425		0.0425	0.0425		16.9350	16.9350	0.0406		17.7874
<b>Total</b>	<b>3.4145</b>	<b>0.1215</b>	<b>14.0209</b>	<b>7.0000e-004</b>		<b>0.0425</b>	<b>0.0425</b>		<b>0.0425</b>	<b>0.0425</b>	<b>0.0000</b>	<b>16.9350</b>	<b>16.9350</b>	<b>0.0406</b>	<b>0.0000</b>	<b>17.7874</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	lb/day										lb/day					
Architectural Coating	0.2476					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4396					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.7273	0.1215	14.0209	7.0000e-004		0.0425	0.0425		0.0425	0.0425		16.9350	16.9350	0.0406		17.7874
<b>Total</b>	<b>3.4145</b>	<b>0.1215</b>	<b>14.0209</b>	<b>7.0000e-004</b>		<b>0.0425</b>	<b>0.0425</b>		<b>0.0425</b>	<b>0.0425</b>	<b>0.0000</b>	<b>16.9350</b>	<b>16.9350</b>	<b>0.0406</b>	<b>0.0000</b>	<b>17.7874</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 16**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	1.88	1000sqft	0.04	1,875.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2000
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 5.333 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2000
tblVehicleTrips	ST_TR	11.23	5.33
tblVehicleTrips	SU_TR	1.21	5.33
tblVehicleTrips	WD_TR	27.49	5.33

## 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	lb/day										lb/day					
Area	0.0521	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.7000e-004
Energy	1.5000e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003		16.4081	16.4081	3.1000e-004	3.0000e-004	16.5080
Mobile	0.1627	0.2711	1.7471	2.0800e-003	0.0489	4.1500e-003	0.0531	0.0141	4.1500e-003	0.0183		88.8262	88.8262	0.0136		89.1123
<b>Total</b>	<b>0.2163</b>	<b>0.2847</b>	<b>1.7589</b>	<b>2.1600e-003</b>	<b>0.0489</b>	<b>5.1900e-003</b>	<b>0.0541</b>	<b>0.0141</b>	<b>5.1900e-003</b>	<b>0.0193</b>		<b>105.2348</b>	<b>105.2348</b>	<b>0.0139</b>	<b>3.0000e-004</b>	<b>105.6207</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	0.0521	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.7000e-004
Energy	1.5000e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003		16.4081	16.4081	3.1000e-004	3.0000e-004	16.5080
Mobile	0.1627	0.2711	1.7471	2.0800e-003	0.0489	4.1500e-003	0.0531	0.0141	4.1500e-003	0.0183		88.8262	88.8262	0.0136		89.1123
<b>Total</b>	<b>0.2163</b>	<b>0.2847</b>	<b>1.7589</b>	<b>2.1600e-003</b>	<b>0.0489</b>	<b>5.1900e-003</b>	<b>0.0541</b>	<b>0.0141</b>	<b>5.1900e-003</b>	<b>0.0193</b>		<b>105.2348</b>	<b>105.2348</b>	<b>0.0139</b>	<b>3.0000e-004</b>	<b>105.6207</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,813; Non-Residential Outdoor: 938 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	1.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

**3.2 Demolition - 2016**

**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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>		<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>	<b>0.0000</b>	<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

**3.4 Grading - 2016****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>		<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	3.7200e-003	4.3100e-003	0.0519	1.3000e-004	9.4300e-003	8.0000e-005	9.5100e-003	2.5000e-003	8.0000e-005	2.5800e-003		10.5724	10.5724	5.3000e-004		10.5834
<b>Total</b>	<b>3.7200e-003</b>	<b>4.3100e-003</b>	<b>0.0519</b>	<b>1.3000e-004</b>	<b>9.4300e-003</b>	<b>8.0000e-005</b>	<b>9.5100e-003</b>	<b>2.5000e-003</b>	<b>8.0000e-005</b>	<b>2.5800e-003</b>		<b>10.5724</b>	<b>10.5724</b>	<b>5.3000e-004</b>		<b>10.5834</b>

### 3.5 Building Construction - 2016

#### 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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>	<b>0.0000</b>	<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	3.7200e-003	4.3100e-003	0.0519	1.3000e-004	9.4300e-003	8.0000e-005	9.5100e-003	2.5000e-003	8.0000e-005	2.5800e-003		10.5724	10.5724	5.3000e-004		10.5834
<b>Total</b>	<b>3.7200e-003</b>	<b>4.3100e-003</b>	<b>0.0519</b>	<b>1.3000e-004</b>	<b>9.4300e-003</b>	<b>8.0000e-005</b>	<b>9.5100e-003</b>	<b>2.5000e-003</b>	<b>8.0000e-005</b>	<b>2.5800e-003</b>		<b>10.5724</b>	<b>10.5724</b>	<b>5.3000e-004</b>		<b>10.5834</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	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>		<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</b>

**3.6 Paving - 2016****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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>	<b>0.0000</b>	<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day						
Archit. Coating	8.6929					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
<b>Total</b>	<b>9.0614</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>			<b>282.1449</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>

### 3.7 Architectural Coating - 2016

#### 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	8.6929					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>9.0614</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	0.0000	0.0000	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>

### 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	0.1627	0.2711	1.7471	2.0800e-003	0.0489	4.1500e-003	0.0531	0.0141	4.1500e-003	0.0183		88.8262	88.8262	0.0136		89.1123
Unmitigated	0.1627	0.2711	1.7471	2.0800e-003	0.0489	4.1500e-003	0.0531	0.0141	4.1500e-003	0.0183		88.8262	88.8262	0.0136		89.1123

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	10.00	10.00	10.00	25,394	25,394
Total	10.00	10.00	10.00	25,394	25,394

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.630142	0.126516	0.135380	0.044811	0.004048	0.008281	0.028653	0.003029	0.001699	0.010368	0.005318	0.000926	0.000829

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.5000e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003		16.4081	16.4081	3.1000e-004	3.0000e-004	16.5080
NaturalGas Unmitigated	1.5000e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003		16.4081	16.4081	3.1000e-004	3.0000e-004	16.5080

### 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					
Junior College (2Yr)	139.469	1.5000e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003		16.4081	16.4081	3.1000e-004	3.0000e-004	16.5080
<b>Total</b>		<b>1.5000e-003</b>	<b>0.0137</b>	<b>0.0115</b>	<b>8.0000e-005</b>		<b>1.0400e-003</b>	<b>1.0400e-003</b>		<b>1.0400e-003</b>	<b>1.0400e-003</b>		<b>16.4081</b>	<b>16.4081</b>	<b>3.1000e-004</b>	<b>3.0000e-004</b>	<b>16.5080</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					
Junior College (2Yr)	0.139469	1.5000e-003	0.0137	0.0115	8.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003		16.4081	16.4081	3.1000e-004	3.0000e-004	16.5080
<b>Total</b>		<b>1.5000e-003</b>	<b>0.0137</b>	<b>0.0115</b>	<b>8.0000e-005</b>		<b>1.0400e-003</b>	<b>1.0400e-003</b>		<b>1.0400e-003</b>	<b>1.0400e-003</b>		<b>16.4081</b>	<b>16.4081</b>	<b>3.1000e-004</b>	<b>3.0000e-004</b>	<b>16.5080</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	0.0521	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.7000e-004
Unmitigated	0.0521	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.7000e-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	lb/day										lb/day					
Architectural Coating	0.0119					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.7000e-004
<b>Total</b>	<b>0.0521</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>4.7000e-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	lb/day										lb/day					
Architectural Coating	0.0119					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		4.1000e-004	4.1000e-004	0.0000		4.7000e-004
<b>Total</b>	<b>0.0521</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>4.7000e-004</b>

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 17**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	81.00	Dwelling Unit	2.13	81,000.00	155

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2000
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Woodstoves - Assumed no fire places or wood stoves0

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	54,675.00	24,444.00
tblArchitecturalCoating	ConstArea_Residential_Interior	164,025.00	73,331.00

tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_Nonresidential_Interior	0	54320
tblAreaCoating	Area_Residential_Exterior	54675	0
tblAreaCoating	Area_Residential_Interior	164025	0
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	220.00	100.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	6.00	2.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	3.00	1.00
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	44.55	0.00
tblFireplaces	NumberNoFireplace	25.11	0.00
tblFireplaces	NumberWood	11.34	0.00
tblLandUse	Population	232.00	155.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00

tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2000
tblTripsAndVMT	VendorTripNumber	9.00	4.00
tblTripsAndVMT	WorkerTripNumber	58.00	26.00
tblTripsAndVMT	WorkerTripNumber	12.00	5.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWoodstoves	NumberCatalytic	0.41	0.00
tblWoodstoves	NumberNoncatalytic	0.41	0.00

## 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	lb/day										lb/day					
Area	2.4226	0.0863	9.9622	5.0000e-004		0.0302	0.0302		0.0302	0.0302	0.0000	12.0327	12.0327	0.0288	0.0000	12.6384
Energy	0.0169	0.1443	0.0614	9.2000e-004		0.0117	0.0117		0.0117	0.0117		184.2114	184.2114	3.5300e-003	3.3800e-003	185.3324
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>2.4395</b>	<b>0.2306</b>	<b>10.0236</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>0.0419</b>	<b>0.0419</b>	<b>0.0000</b>	<b>0.0419</b>	<b>0.0419</b>	<b>0.0000</b>	<b>196.2441</b>	<b>196.2441</b>	<b>0.0324</b>	<b>3.3800e-003</b>	<b>197.9709</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	2.4226	0.0863	9.9622	5.0000e-004		0.0302	0.0302		0.0302	0.0302	0.0000	12.0327	12.0327	0.0288	0.0000	12.6384
Energy	0.0169	0.1443	0.0614	9.2000e-004		0.0117	0.0117		0.0117	0.0117		184.2114	184.2114	3.5300e-003	3.3800e-003	185.3324
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>2.4395</b>	<b>0.2306</b>	<b>10.0236</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>0.0419</b>	<b>0.0419</b>	<b>0.0000</b>	<b>0.0419</b>	<b>0.0419</b>	<b>0.0000</b>	<b>196.2441</b>	<b>196.2441</b>	<b>0.0324</b>	<b>3.3800e-003</b>	<b>197.9709</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 73,331; Residential Outdoor: 24,444; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	26.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.2 Demolition - 2016

#### 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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>		<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>

### 3.3 Site Preparation - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>	<b>0.0000</b>	<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.4 Grading - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>		<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0503	0.3793	0.6058	9.2000e-004	0.0264	5.6600e-003	0.0321	7.5300e-003	5.2000e-003	0.0127		91.9232	91.9232	7.2000e-004		91.9383
Worker	0.0967	0.1120	1.3497	3.2700e-003	0.2452	2.1600e-003	0.2474	0.0650	1.9900e-003	0.0670		274.8810	274.8810	0.0137		275.1693
<b>Total</b>	<b>0.1469</b>	<b>0.4913</b>	<b>1.9555</b>	<b>4.1900e-003</b>	<b>0.2716</b>	<b>7.8200e-003</b>	<b>0.2794</b>	<b>0.0726</b>	<b>7.1900e-003</b>	<b>0.0798</b>		<b>366.8042</b>	<b>366.8042</b>	<b>0.0145</b>		<b>367.1076</b>

### 3.5 Building Construction - 2016

#### 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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>	<b>0.0000</b>	<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0503	0.3793	0.6058	9.2000e-004	0.0264	5.6600e-003	0.0321	7.5300e-003	5.2000e-003	0.0127		91.9232	91.9232	7.2000e-004		91.9383
Worker	0.0967	0.1120	1.3497	3.2700e-003	0.2452	2.1600e-003	0.2474	0.0650	1.9900e-003	0.0670		274.8810	274.8810	0.0137		275.1693
<b>Total</b>	<b>0.1469</b>	<b>0.4913</b>	<b>1.9555</b>	<b>4.1900e-003</b>	<b>0.2716</b>	<b>7.8200e-003</b>	<b>0.2794</b>	<b>0.0726</b>	<b>7.1900e-003</b>	<b>0.0798</b>		<b>366.8042</b>	<b>366.8042</b>	<b>0.0145</b>		<b>367.1076</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	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>		<b>1,083.5832</b>	<b>1,083.5832</b>	<b>0.2969</b>		<b>1,089.8175</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</b>

### 3.6 Paving - 2016

#### 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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>	<b>0.0000</b>	<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day					
Archit. Coating	226.5936					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>226.9620</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>

### 3.7 Architectural Coating - 2016

#### 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	226.5936					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>226.9620</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.630142	0.126516	0.135380	0.044811	0.004048	0.008281	0.028653	0.003029	0.001699	0.010368	0.005318	0.000926	0.000829

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0169	0.1443	0.0614	9.2000e-004		0.0117	0.0117		0.0117	0.0117		184.2114	184.2114	3.5300e-003	3.3800e-003	185.3324
NaturalGas Unmitigated	0.0169	0.1443	0.0614	9.2000e-004		0.0117	0.0117		0.0117	0.0117		184.2114	184.2114	3.5300e-003	3.3800e-003	185.3324

### 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					
Apartments Mid Rise	1565.8	0.0169	0.1443	0.0614	9.2000e-004		0.0117	0.0117		0.0117	0.0117		184.2114	184.2114	3.5300e-003	3.3800e-003	185.3324
<b>Total</b>		<b>0.0169</b>	<b>0.1443</b>	<b>0.0614</b>	<b>9.2000e-004</b>		<b>0.0117</b>	<b>0.0117</b>		<b>0.0117</b>	<b>0.0117</b>		<b>184.2114</b>	<b>184.2114</b>	<b>3.5300e-003</b>	<b>3.3800e-003</b>	<b>185.3324</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					
Apartments Mid Rise	1.5658	0.0169	0.1443	0.0614	9.2000e-004		0.0117	0.0117		0.0117	0.0117		184.2114	184.2114	3.5300e-003	3.3800e-003	185.3324
<b>Total</b>		<b>0.0169</b>	<b>0.1443</b>	<b>0.0614</b>	<b>9.2000e-004</b>		<b>0.0117</b>	<b>0.0117</b>		<b>0.0117</b>	<b>0.0117</b>		<b>184.2114</b>	<b>184.2114</b>	<b>3.5300e-003</b>	<b>3.3800e-003</b>	<b>185.3324</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	2.4226	0.0863	9.9622	5.0000e-004		0.0302	0.0302		0.0302	0.0302	0.0000	12.0327	12.0327	0.0288	0.0000	12.6384
Unmitigated	2.4226	0.0863	9.9622	5.0000e-004		0.0302	0.0302		0.0302	0.0302	0.0000	12.0327	12.0327	0.0288	0.0000	12.6384

### 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	0.1725					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7334					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5167	0.0863	9.9622	5.0000e-004		0.0302	0.0302		0.0302	0.0302		12.0327	12.0327	0.0288		12.6384
<b>Total</b>	<b>2.4226</b>	<b>0.0863</b>	<b>9.9622</b>	<b>5.0000e-004</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0302</b>	<b>0.0302</b>	<b>0.0000</b>	<b>12.0327</b>	<b>12.0327</b>	<b>0.0288</b>	<b>0.0000</b>	<b>12.6384</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	lb/day										lb/day					
Architectural Coating	0.1725					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7334					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5167	0.0863	9.9622	5.0000e-004		0.0302	0.0302		0.0302	0.0302		12.0327	12.0327	0.0288		12.6384
<b>Total</b>	<b>2.4226</b>	<b>0.0863</b>	<b>9.9622</b>	<b>5.0000e-004</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0302</b>	<b>0.0302</b>	<b>0.0000</b>	<b>12.0327</b>	<b>12.0327</b>	<b>0.0288</b>	<b>0.0000</b>	<b>12.6384</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 20**  
**San Francisco County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	65.00	Dwelling Unit	1.71	65,000.00	129

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Woodstoves - Assumed no fireplaces or woodstoves

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	43,875.00	45,748.00
tblArchitecturalCoating	ConstArea_Residential_Interior	131,625.00	137,244.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_Nonresidential_Interior	0	101663
tblAreaCoating	Area_Residential_Exterior	43875	0
tblAreaCoating	Area_Residential_Interior	131625	0
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	35.75	0.00
tblFireplaces	NumberNoFireplace	20.15	0.00
tblFireplaces	NumberWood	9.10	0.00
tblLandUse	Population	186.00	129.00
tblProjectCharacteristics	OperationalYear	2014	2005
tblTripsAndVMT	WorkerTripNumber	47.00	49.00
tblTripsAndVMT	WorkerTripNumber	9.00	10.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWoodstoves	NumberCatalytic	0.33	0.00
tblWoodstoves	NumberNoncatalytic	0.33	0.00

## 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	lb/day										lb/day					
Area	1.9828	0.0846	6.2193	2.8000e-004		0.0263	0.0263		0.0263	0.0263	0.0000	9.6559	9.6559	0.0155	0.0000	9.9806
Energy	0.0136	0.1158	0.0493	7.4000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003		147.8239	147.8239	2.8300e-003	2.7100e-003	148.7236
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>1.9964</b>	<b>0.2004</b>	<b>6.2686</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>0.0356</b>	<b>0.0356</b>	<b>0.0000</b>	<b>0.0356</b>	<b>0.0356</b>	<b>0.0000</b>	<b>157.4798</b>	<b>157.4798</b>	<b>0.0183</b>	<b>2.7100e-003</b>	<b>158.7042</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	1.9828	0.0846	6.2193	2.8000e-004		0.0263	0.0263		0.0263	0.0263	0.0000	9.6559	9.6559	0.0155	0.0000	9.9806
Energy	0.0136	0.1158	0.0493	7.4000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003		147.8239	147.8239	2.8300e-003	2.7100e-003	148.7236
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>1.9964</b>	<b>0.2004</b>	<b>6.2686</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>0.0356</b>	<b>0.0356</b>	<b>0.0000</b>	<b>0.0356</b>	<b>0.0356</b>	<b>0.0000</b>	<b>157.4798</b>	<b>157.4798</b>	<b>0.0183</b>	<b>2.7100e-003</b>	<b>158.7042</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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/1/2016	5	2	
3	Grading	Grading	2/2/2016	2/5/2016	5	4	
4	Building Construction	Building Construction	2/6/2016	11/11/2016	5	200	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 137,244; Residential Outdoor: 45,748; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
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
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	49.00	7.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328		2,487.1296	2,487.1296	0.6288		2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>		<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>		<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328	0.0000	2,487.1296	2,487.1296	0.6288			2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>	<b>0.0000</b>	<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>			<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</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	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	2.4428	25.7718	16.5144	0.0171		1.3985	1.3985		1.2866	1.2866		1,781.087 2	1,781.087 2	0.5372		1,792.369 3
<b>Total</b>	<b>2.4428</b>	<b>25.7718</b>	<b>16.5144</b>	<b>0.0171</b>	<b>5.7996</b>	<b>1.3985</b>	<b>7.1981</b>	<b>2.9537</b>	<b>1.2866</b>	<b>4.2403</b>		<b>1,781.087 2</b>	<b>1,781.087 2</b>	<b>0.5372</b>		<b>1,792.369 3</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000	
Off-Road	2.4428	25.7718	16.5144	0.0171		1.3985	1.3985		1.2866	1.2866	0.0000	1,781.087 2	1,781.087 2	0.5372			1,792.369 3
<b>Total</b>	<b>2.4428</b>	<b>25.7718</b>	<b>16.5144</b>	<b>0.0171</b>	<b>5.7996</b>	<b>1.3985</b>	<b>7.1981</b>	<b>2.9537</b>	<b>1.2866</b>	<b>4.2403</b>	<b>0.0000</b>	<b>1,781.087 2</b>	<b>1,781.087 2</b>	<b>0.5372</b>			<b>1,792.369 3</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003		84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>		<b>84.6675</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	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.9908	21.0361	13.6704	0.0141		1.1407	1.1407		1.0494	1.0494		1,462.8468	1,462.8468	0.4413		1,472.1130
<b>Total</b>	<b>1.9908</b>	<b>21.0361</b>	<b>13.6704</b>	<b>0.0141</b>	<b>4.9143</b>	<b>1.1407</b>	<b>6.0549</b>	<b>2.5256</b>	<b>1.0494</b>	<b>3.5750</b>		<b>1,462.8468</b>	<b>1,462.8468</b>	<b>0.4413</b>		<b>1,472.1130</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003		84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>		<b>84.6675</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					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.9908	21.0361	13.6704	0.0141		1.1407	1.1407		1.0494	1.0494	0.0000	1,462.8468	1,462.8468	0.4413		1,472.1130
<b>Total</b>	<b>1.9908</b>	<b>21.0361</b>	<b>13.6704</b>	<b>0.0141</b>	<b>4.9143</b>	<b>1.1407</b>	<b>6.0549</b>	<b>2.5256</b>	<b>1.0494</b>	<b>3.5750</b>	<b>0.0000</b>	<b>1,462.8468</b>	<b>1,462.8468</b>	<b>0.4413</b>		<b>1,472.1130</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003		84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>		<b>84.6675</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	lb/day										lb/day					
Off-Road	3.2915	20.5459	14.7074	0.0220		1.3656	1.3656		1.3176	1.3176		2,046.9432	2,046.9432	0.4499		2,056.3913
<b>Total</b>	<b>3.2915</b>	<b>20.5459</b>	<b>14.7074</b>	<b>0.0220</b>		<b>1.3656</b>	<b>1.3656</b>		<b>1.3176</b>	<b>1.3176</b>		<b>2,046.9432</b>	<b>2,046.9432</b>	<b>0.4499</b>		<b>2,056.3913</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	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	0.0880	0.6637	1.0602	1.6100e-003	0.0462	9.9100e-003	0.0561	0.0132	9.1100e-003	0.0223		160.8656	160.8656	1.2600e-003			160.8920
Worker	0.1822	0.2111	2.5436	6.1600e-003	0.4621	4.0700e-003	0.4662	0.1226	3.7500e-003	0.1263		518.0449	518.0449	0.0259			518.5883
<b>Total</b>	<b>0.2702</b>	<b>0.8748</b>	<b>3.6039</b>	<b>7.7700e-003</b>	<b>0.5083</b>	<b>0.0140</b>	<b>0.5223</b>	<b>0.1357</b>	<b>0.0129</b>	<b>0.1486</b>		<b>678.9105</b>	<b>678.9105</b>	<b>0.0271</b>			<b>679.4803</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	3.2915	20.5459	14.7074	0.0220		1.3656	1.3656		1.3176	1.3176	0.0000	2,046.9432	2,046.9432	0.4499			2,056.3913
<b>Total</b>	<b>3.2915</b>	<b>20.5459</b>	<b>14.7074</b>	<b>0.0220</b>		<b>1.3656</b>	<b>1.3656</b>		<b>1.3176</b>	<b>1.3176</b>	<b>0.0000</b>	<b>2,046.9432</b>	<b>2,046.9432</b>	<b>0.4499</b>			<b>2,056.3913</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	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	0.0880	0.6637	1.0602	1.6100e-003	0.0462	9.9100e-003	0.0561	0.0132	9.1100e-003	0.0223		160.8656	160.8656	1.2600e-003			160.8920
Worker	0.1822	0.2111	2.5436	6.1600e-003	0.4621	4.0700e-003	0.4662	0.1226	3.7500e-003	0.1263		518.0449	518.0449	0.0259			518.5883
<b>Total</b>	<b>0.2702</b>	<b>0.8748</b>	<b>3.6039</b>	<b>7.7700e-003</b>	<b>0.5083</b>	<b>0.0140</b>	<b>0.5223</b>	<b>0.1357</b>	<b>0.0129</b>	<b>0.1486</b>		<b>678.9105</b>	<b>678.9105</b>	<b>0.0271</b>			<b>679.4803</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	lb/day										lb/day						
Off-Road	1.2872	13.2076	9.0880	0.0133		0.8075	0.8075		0.7438	0.7438		1,368.4366	1,368.4366	0.4053			1,376.9473
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.2872</b>	<b>13.2076</b>	<b>9.0880</b>	<b>0.0133</b>		<b>0.8075</b>	<b>0.8075</b>		<b>0.7438</b>	<b>0.7438</b>		<b>1,368.4366</b>	<b>1,368.4366</b>	<b>0.4053</b>			<b>1,376.9473</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</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	1.2872	13.2076	9.0880	0.0133		0.8075	0.8075		0.7438	0.7438	0.0000	1,368.4366	1,368.4366	0.4053			1,376.9473
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.2872</b>	<b>13.2076</b>	<b>9.0880</b>	<b>0.0133</b>		<b>0.8075</b>	<b>0.8075</b>		<b>0.7438</b>	<b>0.7438</b>	<b>0.0000</b>	<b>1,368.4366</b>	<b>1,368.4366</b>	<b>0.4053</b>			<b>1,376.9473</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</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	lb/day										lb/day						
Archit. Coating	212.0420					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
<b>Total</b>	<b>212.4104</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>			<b>282.1449</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	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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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					
Archit. Coating	212.0420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>212.4104</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 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	0.0136	0.1158	0.0493	7.4000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003		147.8239	147.8239	2.8300e-003	2.7100e-003	148.7236
NaturalGas Unmitigated	0.0136	0.1158	0.0493	7.4000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003		147.8239	147.8239	2.8300e-003	2.7100e-003	148.7236

### 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					
Apartments Mid Rise	1256.5	0.0136	0.1158	0.0493	7.4000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003		147.8239	147.8239	2.8300e-003	2.7100e-003	148.7236
<b>Total</b>		<b>0.0136</b>	<b>0.1158</b>	<b>0.0493</b>	<b>7.4000e-004</b>		<b>9.3600e-003</b>	<b>9.3600e-003</b>		<b>9.3600e-003</b>	<b>9.3600e-003</b>		<b>147.8239</b>	<b>147.8239</b>	<b>2.8300e-003</b>	<b>2.7100e-003</b>	<b>148.7236</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					
Apartments Mid Rise	1.2565	0.0136	0.1158	0.0493	7.4000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003		147.8239	147.8239	2.8300e-003	2.7100e-003	148.7236
<b>Total</b>		<b>0.0136</b>	<b>0.1158</b>	<b>0.0493</b>	<b>7.4000e-004</b>		<b>9.3600e-003</b>	<b>9.3600e-003</b>		<b>9.3600e-003</b>	<b>9.3600e-003</b>		<b>147.8239</b>	<b>147.8239</b>	<b>2.8300e-003</b>	<b>2.7100e-003</b>	<b>148.7236</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	1.9828	0.0846	6.2193	2.8000e-004		0.0263	0.0263		0.0263	0.0263	0.0000	9.6559	9.6559	0.0155	0.0000	9.9806
Unmitigated	1.9828	0.0846	6.2193	2.8000e-004		0.0263	0.0263		0.0263	0.0263	0.0000	9.6559	9.6559	0.0155	0.0000	9.9806

## 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	0.3228					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2691	0.0846	6.2193	2.8000e-004		0.0263	0.0263		0.0263	0.0263		9.6559	9.6559	0.0155		9.9806
<b>Total</b>	<b>1.9828</b>	<b>0.0846</b>	<b>6.2193</b>	<b>2.8000e-004</b>		<b>0.0263</b>	<b>0.0263</b>		<b>0.0263</b>	<b>0.0263</b>	<b>0.0000</b>	<b>9.6559</b>	<b>9.6559</b>	<b>0.0155</b>	<b>0.0000</b>	<b>9.9806</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	lb/day										lb/day					
Architectural Coating	0.3228					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3910					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2691	0.0846	6.2193	2.8000e-004		0.0263	0.0263		0.0263	0.0263		9.6559	9.6559	0.0155		9.9806
<b>Total</b>	<b>1.9828</b>	<b>0.0846</b>	<b>6.2193</b>	<b>2.8000e-004</b>		<b>0.0263</b>	<b>0.0263</b>		<b>0.0263</b>	<b>0.0263</b>	<b>0.0000</b>	<b>9.6559</b>	<b>9.6559</b>	<b>0.0155</b>	<b>0.0000</b>	<b>9.9806</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 23**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	37.73	1000sqft	0.87	37,730.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2000
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 4.506 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 4/19/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2000
tblVehicleTrips	ST_TR	11.23	6.36
tblVehicleTrips	SU_TR	1.21	6.36
tblVehicleTrips	WD_TR	27.49	6.36

## 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	lb/day										lb/day					
Area	1.0479	5.0000e-005	6.8300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		8.2600e-003	8.2600e-003	6.0000e-005		9.4400e-003
Energy	0.0303	0.2752	0.2311	1.6500e-003		0.0209	0.0209		0.0209	0.0209		330.1755	330.1755	6.3300e-003	6.0500e-003	332.1849
Mobile	3.9043	6.5048	41.9253	0.0499	1.1736	0.0996	1.2731	0.3385	0.0996	0.4381		2,131.6316	2,131.6316	0.3269		2,138.4962
<b>Total</b>	<b>4.9825</b>	<b>6.7800</b>	<b>42.1633</b>	<b>0.0516</b>	<b>1.1736</b>	<b>0.1205</b>	<b>1.2941</b>	<b>0.3385</b>	<b>0.1205</b>	<b>0.4590</b>		<b>2,461.8153</b>	<b>2,461.8153</b>	<b>0.3333</b>	<b>6.0500e-003</b>	<b>2,470.6906</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	1.0479	5.0000e-005	6.8300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		8.2600e-003	8.2600e-003	6.0000e-005		9.4400e-003
Energy	0.0303	0.2752	0.2311	1.6500e-003		0.0209	0.0209		0.0209	0.0209		330.1755	330.1755	6.3300e-003	6.0500e-003	332.1849
Mobile	3.9043	6.5048	41.9253	0.0499	1.1736	0.0996	1.2731	0.3385	0.0996	0.4381		2,131.6316	2,131.6316	0.3269		2,138.4962
<b>Total</b>	<b>4.9825</b>	<b>6.7800</b>	<b>42.1633</b>	<b>0.0516</b>	<b>1.1736</b>	<b>0.1205</b>	<b>1.2941</b>	<b>0.3385</b>	<b>0.1205</b>	<b>0.4590</b>		<b>2,461.8153</b>	<b>2,461.8153</b>	<b>0.3333</b>	<b>6.0500e-003</b>	<b>2,470.6906</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 56,595; Non-Residential Outdoor: 18,865 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	16.00	6.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT



### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.2 Demolition - 2016

#### 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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>		<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>	<b>0.0000</b>	<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.4 Grading - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>		<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0754	0.5689	0.9088	1.3800e-003	0.0396	8.5000e-003	0.0481	0.0113	7.8100e-003	0.0191		137.8848	137.8848	1.0800e-003		137.9074
Worker	0.0595	0.0689	0.8306	2.0100e-003	0.1509	1.3300e-003	0.1522	0.0400	1.2200e-003	0.0412		169.1575	169.1575	8.4500e-003		169.3350
<b>Total</b>	<b>0.1349</b>	<b>0.6378</b>	<b>1.7393</b>	<b>3.3900e-003</b>	<b>0.1905</b>	<b>9.8300e-003</b>	<b>0.2003</b>	<b>0.0513</b>	<b>9.0300e-003</b>	<b>0.0603</b>		<b>307.0423</b>	<b>307.0423</b>	<b>9.5300e-003</b>		<b>307.2424</b>

### 3.5 Building Construction - 2016

#### 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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>	<b>0.0000</b>	<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0754	0.5689	0.9088	1.3800e-003	0.0396	8.5000e-003	0.0481	0.0113	7.8100e-003	0.0191		137.8848	137.8848	1.0800e-003		137.9074
Worker	0.0595	0.0689	0.8306	2.0100e-003	0.1509	1.3300e-003	0.1522	0.0400	1.2200e-003	0.0412		169.1575	169.1575	8.4500e-003		169.3350
<b>Total</b>	<b>0.1349</b>	<b>0.6378</b>	<b>1.7393</b>	<b>3.3900e-003</b>	<b>0.1905</b>	<b>9.8300e-003</b>	<b>0.2003</b>	<b>0.0513</b>	<b>9.0300e-003</b>	<b>0.0603</b>		<b>307.0423</b>	<b>307.0423</b>	<b>9.5300e-003</b>		<b>307.2424</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	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>		<b>1,083.5832</b>	<b>1,083.5832</b>	<b>0.2969</b>		<b>1,089.8175</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</b>

### 3.6 Paving - 2016

#### 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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>	<b>0.0000</b>	<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day					
Archit. Coating	174.8786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>175.2470</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	0.0112	0.0129	0.1557	3.8000e-004	0.0283	2.5000e-004	0.0285	7.5000e-003	2.3000e-004	7.7300e-003		31.7170	31.7170	1.5800e-003		31.7503
<b>Total</b>	<b>0.0112</b>	<b>0.0129</b>	<b>0.1557</b>	<b>3.8000e-004</b>	<b>0.0283</b>	<b>2.5000e-004</b>	<b>0.0285</b>	<b>7.5000e-003</b>	<b>2.3000e-004</b>	<b>7.7300e-003</b>		<b>31.7170</b>	<b>31.7170</b>	<b>1.5800e-003</b>		<b>31.7503</b>

### 3.7 Architectural Coating - 2016

#### 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	174.8786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>175.2470</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	0.0112	0.0129	0.1557	3.8000e-004	0.0283	2.5000e-004	0.0285	7.5000e-003	2.3000e-004	7.7300e-003		31.7170	31.7170	1.5800e-003		31.7503
<b>Total</b>	<b>0.0112</b>	<b>0.0129</b>	<b>0.1557</b>	<b>3.8000e-004</b>	<b>0.0283</b>	<b>2.5000e-004</b>	<b>0.0285</b>	<b>7.5000e-003</b>	<b>2.3000e-004</b>	<b>7.7300e-003</b>		<b>31.7170</b>	<b>31.7170</b>	<b>1.5800e-003</b>		<b>31.7503</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	3.9043	6.5048	41.9253	0.0499	1.1736	0.0996	1.2731	0.3385	0.0996	0.4381		2,131.6316	2,131.6316	0.3269		2,138.4962
Unmitigated	3.9043	6.5048	41.9253	0.0499	1.1736	0.0996	1.2731	0.3385	0.0996	0.4381		2,131.6316	2,131.6316	0.3269		2,138.4962

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	239.96	239.96	239.96	609,394	609,394
Total	239.96	239.96	239.96	609,394	609,394

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.630142	0.126516	0.135380	0.044811	0.004048	0.008281	0.028653	0.003029	0.001699	0.010368	0.005318	0.000926	0.000829

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0303	0.2752	0.2311	1.6500e-003		0.0209	0.0209		0.0209	0.0209		330.1755	330.1755	6.3300e-003	6.0500e-003	332.1849
NaturalGas Unmitigated	0.0303	0.2752	0.2311	1.6500e-003		0.0209	0.0209		0.0209	0.0209		330.1755	330.1755	6.3300e-003	6.0500e-003	332.1849

### 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					
Junior College (2Yr)	2806.49	0.0303	0.2752	0.2311	1.6500e-003		0.0209	0.0209		0.0209	0.0209		330.1755	330.1755	6.3300e-003	6.0500e-003	332.1849
<b>Total</b>		<b>0.0303</b>	<b>0.2752</b>	<b>0.2311</b>	<b>1.6500e-003</b>		<b>0.0209</b>	<b>0.0209</b>		<b>0.0209</b>	<b>0.0209</b>		<b>330.1755</b>	<b>330.1755</b>	<b>6.3300e-003</b>	<b>6.0500e-003</b>	<b>332.1849</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					
Junior College (2Yr)	2.80649	0.0303	0.2752	0.2311	1.6500e-003		0.0209	0.0209		0.0209	0.0209		330.1755	330.1755	6.3300e-003	6.0500e-003	332.1849
<b>Total</b>		<b>0.0303</b>	<b>0.2752</b>	<b>0.2311</b>	<b>1.6500e-003</b>		<b>0.0209</b>	<b>0.0209</b>		<b>0.0209</b>	<b>0.0209</b>		<b>330.1755</b>	<b>330.1755</b>	<b>6.3300e-003</b>	<b>6.0500e-003</b>	<b>332.1849</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	1.0479	5.0000e-005	6.8300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		8.2600e-003	8.2600e-003	6.0000e-005		9.4400e-003
Unmitigated	1.0479	5.0000e-005	6.8300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		8.2600e-003	8.2600e-003	6.0000e-005		9.4400e-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	0.2396					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.6000e-004	5.0000e-005	6.8300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		8.2600e-003	8.2600e-003	6.0000e-005		9.4400e-003
<b>Total</b>	<b>1.0479</b>	<b>5.0000e-005</b>	<b>6.8300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>8.2600e-003</b>	<b>8.2600e-003</b>	<b>6.0000e-005</b>		<b>9.4400e-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	0.2396					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.6000e-004	5.0000e-005	6.8300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		8.2600e-003	8.2600e-003	6.0000e-005		9.4400e-003
<b>Total</b>	<b>1.0479</b>	<b>5.0000e-005</b>	<b>6.8300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>8.2600e-003</b>	<b>8.2600e-003</b>	<b>6.0000e-005</b>		<b>9.4400e-003</b>

### 7.0 Water Detail



## 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 27**  
**San Francisco County, Summer**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	147.51	1000sqft	3.39	147,509.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 4.407 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	1990
tblVehicleTrips	ST_TR	11.23	4.41
tblVehicleTrips	SU_TR	1.21	4.41
tblVehicleTrips	WD_TR	27.49	4.41

## 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	lb/day										lb/day						
Area	4.0997	1.7000e-004	0.0492	2.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0323	0.0323	6.1000e-004			0.0451
Energy	0.1183	1.0757	0.9036	6.4500e-003		0.0818	0.0818		0.0818	0.0818		1,290.8523	1,290.8523	0.0247	0.0237		1,298.7082
Mobile	22.3653	27.7625	261.6555	1.9921	3.1795	0.3421	3.5216	0.9173	0.3421	1.2594		5,514.1889	5,514.1889	1.5887			5,547.5524
<b>Total</b>	<b>26.5834</b>	<b>28.8384</b>	<b>262.6082</b>	<b>1.9986</b>	<b>3.1795</b>	<b>0.4240</b>	<b>3.6035</b>	<b>0.9173</b>	<b>0.4240</b>	<b>1.3412</b>		<b>6,805.0735</b>	<b>6,805.0735</b>	<b>1.6141</b>	<b>0.0237</b>		<b>6,846.3057</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	4.0997	1.7000e-004	0.0492	2.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0323	0.0323	6.1000e-004			0.0451
Energy	0.1183	1.0757	0.9036	6.4500e-003		0.0818	0.0818		0.0818	0.0818		1,290.8523	1,290.8523	0.0247	0.0237		1,298.7082
Mobile	22.3653	27.7625	261.6555	1.9921	3.1795	0.3421	3.5216	0.9173	0.3421	1.2594		5,514.1889	5,514.1889	1.5887			5,547.5524
<b>Total</b>	<b>26.5834</b>	<b>28.8384</b>	<b>262.6082</b>	<b>1.9986</b>	<b>3.1795</b>	<b>0.4240</b>	<b>3.6035</b>	<b>0.9173</b>	<b>0.4240</b>	<b>1.3412</b>		<b>6,805.0735</b>	<b>6,805.0735</b>	<b>1.6141</b>	<b>0.0237</b>		<b>6,846.3057</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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/4/2016	5	5	
3	Grading	Grading	2/5/2016	2/16/2016	5	8	
4	Building Construction	Building Construction	2/17/2016	1/3/2017	5	230	
5	Paving	Paving	1/4/2017	1/27/2017	5	18	
6	Architectural Coating	Architectural Coating	1/28/2017	2/22/2017	5	18	

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: 221,264; Non-Residential Outdoor: 73,755 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	62.00	24.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365		4,089.284 1	4,089.284 1	1.1121		4,112.637 4
<b>Total</b>	<b>4.2876</b>	<b>45.6559</b>	<b>35.0303</b>	<b>0.0399</b>		<b>2.2921</b>	<b>2.2921</b>		<b>2.1365</b>	<b>2.1365</b>		<b>4,089.284 1</b>	<b>4,089.284 1</b>	<b>1.1121</b>		<b>4,112.637 4</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003			158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>			<b>158.7515</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	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365	0.0000	4,089.2841	4,089.2841	1.1121			4,112.6374
<b>Total</b>	<b>4.2876</b>	<b>45.6559</b>	<b>35.0303</b>	<b>0.0399</b>		<b>2.2921</b>	<b>2.2921</b>		<b>2.1365</b>	<b>2.1365</b>	<b>0.0000</b>	<b>4,089.2841</b>	<b>4,089.2841</b>	<b>1.1121</b>			<b>4,112.6374</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003			158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>			<b>158.7515</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	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262			4,090.7544
<b>Total</b>	<b>5.0771</b>	<b>54.6323</b>	<b>41.1053</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.9387</b>	<b>21.0049</b>	<b>9.9307</b>	<b>2.7036</b>	<b>12.6343</b>		<b>4,065.0053</b>	<b>4,065.0053</b>	<b>1.2262</b>			<b>4,090.7544</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	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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544
<b>Total</b>	<b>5.0771</b>	<b>54.6323</b>	<b>41.1053</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.9387</b>	<b>21.0049</b>	<b>9.9307</b>	<b>2.7036</b>	<b>12.6343</b>	<b>0.0000</b>	<b>4,065.0053</b>	<b>4,065.0053</b>	<b>1.2262</b>		<b>4,090.7544</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	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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225		3,093.7889	3,093.7889	0.9332		3,113.3860
<b>Total</b>	<b>3.6669</b>	<b>38.4466</b>	<b>26.0787</b>	<b>0.0298</b>	<b>6.5523</b>	<b>2.1984</b>	<b>8.7507</b>	<b>3.3675</b>	<b>2.0225</b>	<b>5.3900</b>		<b>3,093.7889</b>	<b>3,093.7889</b>	<b>0.9332</b>		<b>3,113.3860</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003			158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>			<b>158.7515</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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000	
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225	0.0000	3,093.7889	3,093.7889	0.9332			3,113.3860
<b>Total</b>	<b>3.6669</b>	<b>38.4466</b>	<b>26.0787</b>	<b>0.0298</b>	<b>6.5523</b>	<b>2.1984</b>	<b>8.7507</b>	<b>3.3675</b>	<b>2.0225</b>	<b>5.3900</b>	<b>0.0000</b>	<b>3,093.7889</b>	<b>3,093.7889</b>	<b>0.9332</b>			<b>3,113.3860</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003			158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>			<b>158.7515</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	lb/day										lb/day						
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890
<b>Total</b>	<b>3.4062</b>	<b>28.5063</b>	<b>18.5066</b>	<b>0.0268</b>		<b>1.9674</b>	<b>1.9674</b>		<b>1.8485</b>	<b>1.8485</b>		<b>2,669.2864</b>	<b>2,669.2864</b>	<b>0.6620</b>			<b>2,683.1890</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	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	0.3017	2.2755	3.6350	5.5200e-003	0.1585	0.0340	0.1924	0.0452	0.0312	0.0764		551.5391	551.5391	4.3100e-003			551.6296
Worker	0.2305	0.2671	3.2185	7.8000e-003	0.5847	5.1500e-003	0.5898	0.1551	4.7400e-003	0.1598		655.4854	655.4854	0.0327			656.1730
<b>Total</b>	<b>0.5322</b>	<b>2.5426</b>	<b>6.8535</b>	<b>0.0133</b>	<b>0.7431</b>	<b>0.0391</b>	<b>0.7823</b>	<b>0.2003</b>	<b>0.0360</b>	<b>0.2362</b>		<b>1,207.0245</b>	<b>1,207.0245</b>	<b>0.0371</b>			<b>1,207.8026</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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890
<b>Total</b>	<b>3.4062</b>	<b>28.5063</b>	<b>18.5066</b>	<b>0.0268</b>		<b>1.9674</b>	<b>1.9674</b>		<b>1.8485</b>	<b>1.8485</b>	<b>0.0000</b>	<b>2,669.2864</b>	<b>2,669.2864</b>	<b>0.6620</b>			<b>2,683.1890</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	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	0.3017	2.2755	3.6350	5.5200e-003	0.1585	0.0340	0.1924	0.0452	0.0312	0.0764		551.5391	551.5391	4.3100e-003			551.6296
Worker	0.2305	0.2671	3.2185	7.8000e-003	0.5847	5.1500e-003	0.5898	0.1551	4.7400e-003	0.1598		655.4854	655.4854	0.0327			656.1730
<b>Total</b>	<b>0.5322</b>	<b>2.5426</b>	<b>6.8535</b>	<b>0.0133</b>	<b>0.7431</b>	<b>0.0391</b>	<b>0.7823</b>	<b>0.2003</b>	<b>0.0360</b>	<b>0.2362</b>		<b>1,207.0245</b>	<b>1,207.0245</b>	<b>0.0371</b>			<b>1,207.8026</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>		<b>2,639.8053</b>	<b>2,639.8053</b>	<b>0.6497</b>			<b>2,653.4490</b>



### 3.5 Building Construction - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.2756	2.0504	3.3944	5.5200e-003	0.1585	0.0295	0.1880	0.0452	0.0271	0.0723		543.2424	543.2424	4.1000e-003			543.3284
Worker	0.2094	0.2416	2.9215	7.8000e-003	0.5847	4.9900e-003	0.5897	0.1551	4.6000e-003	0.1597		630.4466	630.4466	0.0303			631.0822
<b>Total</b>	<b>0.4849</b>	<b>2.2920</b>	<b>6.3159</b>	<b>0.0133</b>	<b>0.7432</b>	<b>0.0345</b>	<b>0.7777</b>	<b>0.2003</b>	<b>0.0317</b>	<b>0.2320</b>		<b>1,173.6890</b>	<b>1,173.6890</b>	<b>0.0344</b>			<b>1,174.4106</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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>	<b>0.0000</b>	<b>2,639.8053</b>	<b>2,639.8053</b>	<b>0.6497</b>			<b>2,653.4490</b>

### 3.5 Building Construction - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.2756	2.0504	3.3944	5.5200e-003	0.1585	0.0295	0.1880	0.0452	0.0271	0.0723		543.2424	543.2424	4.1000e-003			543.3284
Worker	0.2094	0.2416	2.9215	7.8000e-003	0.5847	4.9900e-003	0.5897	0.1551	4.6000e-003	0.1597		630.4466	630.4466	0.0303			631.0822
<b>Total</b>	<b>0.4849</b>	<b>2.2920</b>	<b>6.3159</b>	<b>0.0133</b>	<b>0.7432</b>	<b>0.0345</b>	<b>0.7777</b>	<b>0.2003</b>	<b>0.0317</b>	<b>0.2320</b>		<b>1,173.6890</b>	<b>1,173.6890</b>	<b>0.0344</b>			<b>1,174.4106</b>

### 3.6 Paving - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269		1,873.8264	1,873.8264	0.5588			1,885.5609
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.6554</b>	<b>16.8035</b>	<b>12.4837</b>	<b>0.0186</b>		<b>1.0056</b>	<b>1.0056</b>		<b>0.9269</b>	<b>0.9269</b>		<b>1,873.8264</b>	<b>1,873.8264</b>	<b>0.5588</b>			<b>1,885.5609</b>

### 3.6 Paving - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0675	0.0780	0.9424	2.5200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4900e-003	0.0515		203.3699	203.3699	9.7600e-003			203.5749
<b>Total</b>	<b>0.0675</b>	<b>0.0780</b>	<b>0.9424</b>	<b>2.5200e-003</b>	<b>0.1886</b>	<b>1.6100e-003</b>	<b>0.1902</b>	<b>0.0500</b>	<b>1.4900e-003</b>	<b>0.0515</b>		<b>203.3699</b>	<b>203.3699</b>	<b>9.7600e-003</b>			<b>203.5749</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	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269	0.0000	1,873.8264	1,873.8264	0.5588			1,885.5609
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.6554</b>	<b>16.8035</b>	<b>12.4837</b>	<b>0.0186</b>		<b>1.0056</b>	<b>1.0056</b>		<b>0.9269</b>	<b>0.9269</b>	<b>0.0000</b>	<b>1,873.8264</b>	<b>1,873.8264</b>	<b>0.5588</b>			<b>1,885.5609</b>

### 3.6 Paving - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0675	0.0780	0.9424	2.5200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4900e-003	0.0515		203.3699	203.3699	9.7600e-003			203.5749
<b>Total</b>	<b>0.0675</b>	<b>0.0780</b>	<b>0.9424</b>	<b>2.5200e-003</b>	<b>0.1886</b>	<b>1.6100e-003</b>	<b>0.1902</b>	<b>0.0500</b>	<b>1.4900e-003</b>	<b>0.0515</b>		<b>203.3699</b>	<b>203.3699</b>	<b>9.7600e-003</b>			<b>203.5749</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	189.9185					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
<b>Total</b>	<b>190.2508</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>			<b>282.0721</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0405	0.0468	0.5654	1.5100e-003	0.1132	9.7000e-004	0.1141	0.0300	8.9000e-004	0.0309		122.0219	122.0219	5.8600e-003			122.1449
<b>Total</b>	<b>0.0405</b>	<b>0.0468</b>	<b>0.5654</b>	<b>1.5100e-003</b>	<b>0.1132</b>	<b>9.7000e-004</b>	<b>0.1141</b>	<b>0.0300</b>	<b>8.9000e-004</b>	<b>0.0309</b>		<b>122.0219</b>	<b>122.0219</b>	<b>5.8600e-003</b>			<b>122.1449</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						
Archit. Coating	189.9185					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721
<b>Total</b>	<b>190.2508</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>			<b>282.0721</b>

### 3.7 Architectural Coating - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0405	0.0468	0.5654	1.5100e-003	0.1132	9.7000e-004	0.1141	0.0300	8.9000e-004	0.0309		122.0219	122.0219	5.8600e-003			122.1449
<b>Total</b>	<b>0.0405</b>	<b>0.0468</b>	<b>0.5654</b>	<b>1.5100e-003</b>	<b>0.1132</b>	<b>9.7000e-004</b>	<b>0.1141</b>	<b>0.0300</b>	<b>8.9000e-004</b>	<b>0.0309</b>		<b>122.0219</b>	<b>122.0219</b>	<b>5.8600e-003</b>			<b>122.1449</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	22.3653	27.7625	261.6555	1.9921	3.1795	0.3421	3.5216	0.9173	0.3421	1.2594		5,514.1889	5,514.1889	1.5887			5,547.5524
Unmitigated	22.3653	27.7625	261.6555	1.9921	3.1795	0.3421	3.5216	0.9173	0.3421	1.2594		5,514.1889	5,514.1889	1.5887			5,547.5524

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	650.07	650.07	650.07	1,650,882	1,650,882
<b>Total</b>	<b>650.07</b>	<b>650.07</b>	<b>650.07</b>	<b>1,650,882</b>	<b>1,650,882</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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 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	0.1183	1.0757	0.9036	6.4500e-003		0.0818	0.0818		0.0818	0.0818		1,290.8523	1,290.8523	0.0247	0.0237	1,298.7082
NaturalGas Unmitigated	0.1183	1.0757	0.9036	6.4500e-003		0.0818	0.0818		0.0818	0.0818		1,290.8523	1,290.8523	0.0247	0.0237	1,298.7082

### 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					
Junior College (2Yr)	10972.2	0.1183	1.0757	0.9036	6.4500e-003		0.0818	0.0818		0.0818	0.0818		1,290.8523	1,290.8523	0.0247	0.0237	1,298.7082
<b>Total</b>		<b>0.1183</b>	<b>1.0757</b>	<b>0.9036</b>	<b>6.4500e-003</b>		<b>0.0818</b>	<b>0.0818</b>		<b>0.0818</b>	<b>0.0818</b>		<b>1,290.8523</b>	<b>1,290.8523</b>	<b>0.0247</b>	<b>0.0237</b>	<b>1,298.7082</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					
Junior College (2Yr)	10.9722	0.1183	1.0757	0.9036	6.4500e-003		0.0818	0.0818		0.0818	0.0818		1,290.8523	1,290.8523	0.0247	0.0237	1,298.7082
<b>Total</b>		<b>0.1183</b>	<b>1.0757</b>	<b>0.9036</b>	<b>6.4500e-003</b>		<b>0.0818</b>	<b>0.0818</b>		<b>0.0818</b>	<b>0.0818</b>		<b>1,290.8523</b>	<b>1,290.8523</b>	<b>0.0247</b>	<b>0.0237</b>	<b>1,298.7082</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	4.0997	1.7000e-004	0.0492	2.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0323	0.0323	6.1000e-004			0.0451
Unmitigated	4.0997	1.7000e-004	0.0492	2.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0323	0.0323	6.1000e-004			0.0451

## 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	0.9366					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	3.1567					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Landscaping	6.4600e-003	1.7000e-004	0.0492	2.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0323	0.0323	6.1000e-004			0.0451
<b>Total</b>	<b>4.0997</b>	<b>1.7000e-004</b>	<b>0.0492</b>	<b>2.0000e-005</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>0.0323</b>	<b>0.0323</b>	<b>6.1000e-004</b>			<b>0.0451</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	lb/day										lb/day					
Architectural Coating	0.9366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1567					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4600e-003	1.7000e-004	0.0492	2.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0323	0.0323	6.1000e-004		0.0451
<b>Total</b>	<b>4.0997</b>	<b>1.7000e-004</b>	<b>0.0492</b>	<b>2.0000e-005</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>0.0323</b>	<b>0.0323</b>	<b>6.1000e-004</b>		<b>0.0451</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 28**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	190.07	1000sqft	4.36	190,066.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 4.367 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	1990
tblVehicleTrips	ST_TR	11.23	4.37
tblVehicleTrips	SU_TR	1.21	4.37
tblVehicleTrips	WD_TR	27.49	4.37

## 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	lb/day										lb/day					
Area	5.2825	2.3000e-004	0.0633	2.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0416	0.0416	7.8000e-004		0.0581
Energy	0.1525	1.3861	1.1643	8.3200e-003		0.1053	0.1053		0.1053	0.1053		1,663.2689	1,663.2689	0.0319	0.0305	1,673.3913
Mobile	28.5568	35.4482	334.0912	2.5436	4.0597	0.4368	4.4965	1.1712	0.4368	1.6080		7,040.7162	7,040.7162	2.0286		7,083.3159
<b>Total</b>	<b>33.9918</b>	<b>36.8345</b>	<b>335.3188</b>	<b>2.5520</b>	<b>4.0597</b>	<b>0.5423</b>	<b>4.6020</b>	<b>1.1712</b>	<b>0.5423</b>	<b>1.7135</b>		<b>8,704.0267</b>	<b>8,704.0267</b>	<b>2.0612</b>	<b>0.0305</b>	<b>8,756.7652</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	5.2825	2.3000e-004	0.0633	2.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0416	0.0416	7.8000e-004		0.0581
Energy	0.1525	1.3861	1.1643	8.3200e-003		0.1053	0.1053		0.1053	0.1053		1,663.2689	1,663.2689	0.0319	0.0305	1,673.3913
Mobile	28.5568	35.4482	334.0912	2.5436	4.0597	0.4368	4.4965	1.1712	0.4368	1.6080		7,040.7162	7,040.7162	2.0286		7,083.3159
<b>Total</b>	<b>33.9918</b>	<b>36.8345</b>	<b>335.3188</b>	<b>2.5520</b>	<b>4.0597</b>	<b>0.5423</b>	<b>4.6020</b>	<b>1.1712</b>	<b>0.5423</b>	<b>1.7135</b>		<b>8,704.0267</b>	<b>8,704.0267</b>	<b>2.0612</b>	<b>0.0305</b>	<b>8,756.7652</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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/4/2016	5	5	
3	Grading	Grading	2/5/2016	2/16/2016	5	8	
4	Building Construction	Building Construction	2/17/2016	1/3/2017	5	230	
5	Paving	Paving	1/4/2017	1/27/2017	5	18	
6	Architectural Coating	Architectural Coating	1/28/2017	2/22/2017	5	18	

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: 285,099; Non-Residential Outdoor: 95,033 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	80.00	31.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365		4,089.2841	4,089.2841	1.1121		4,112.6374
<b>Total</b>	<b>4.2876</b>	<b>45.6559</b>	<b>35.0303</b>	<b>0.0399</b>		<b>2.2921</b>	<b>2.2921</b>		<b>2.1365</b>	<b>2.1365</b>		<b>4,089.2841</b>	<b>4,089.2841</b>	<b>1.1121</b>		<b>4,112.6374</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003			158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>			<b>158.7515</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	4.2876	45.6559	35.0303	0.0399		2.2921	2.2921		2.1365	2.1365	0.0000	4,089.2841	4,089.2841	1.1121			4,112.6374
<b>Total</b>	<b>4.2876</b>	<b>45.6559</b>	<b>35.0303</b>	<b>0.0399</b>		<b>2.2921</b>	<b>2.2921</b>		<b>2.1365</b>	<b>2.1365</b>	<b>0.0000</b>	<b>4,089.2841</b>	<b>4,089.2841</b>	<b>1.1121</b>			<b>4,112.6374</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003			158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>			<b>158.7515</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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036		4,065.0053	4,065.0053	1.2262		4,090.7544
<b>Total</b>	<b>5.0771</b>	<b>54.6323</b>	<b>41.1053</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.9387</b>	<b>21.0049</b>	<b>9.9307</b>	<b>2.7036</b>	<b>12.6343</b>		<b>4,065.0053</b>	<b>4,065.0053</b>	<b>1.2262</b>		<b>4,090.7544</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	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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.0771	54.6323	41.1053	0.0391		2.9387	2.9387		2.7036	2.7036	0.0000	4,065.0053	4,065.0053	1.2262		4,090.7544
<b>Total</b>	<b>5.0771</b>	<b>54.6323</b>	<b>41.1053</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.9387</b>	<b>21.0049</b>	<b>9.9307</b>	<b>2.7036</b>	<b>12.6343</b>	<b>0.0000</b>	<b>4,065.0053</b>	<b>4,065.0053</b>	<b>1.2262</b>		<b>4,090.7544</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	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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003			190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>			<b>190.5018</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	lb/day										lb/day						
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000				0.0000
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225		3,093.7889	3,093.7889	0.9332			3,113.3860
<b>Total</b>	<b>3.6669</b>	<b>38.4466</b>	<b>26.0787</b>	<b>0.0298</b>	<b>6.5523</b>	<b>2.1984</b>	<b>8.7507</b>	<b>3.3675</b>	<b>2.0225</b>	<b>5.3900</b>		<b>3,093.7889</b>	<b>3,093.7889</b>	<b>0.9332</b>			<b>3,113.3860</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003		158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>		<b>158.7515</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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	3.6669	38.4466	26.0787	0.0298		2.1984	2.1984		2.0225	2.0225	0.0000	3,093.7889	3,093.7889	0.9332		3,113.3860
<b>Total</b>	<b>3.6669</b>	<b>38.4466</b>	<b>26.0787</b>	<b>0.0298</b>	<b>6.5523</b>	<b>2.1984</b>	<b>8.7507</b>	<b>3.3675</b>	<b>2.0225</b>	<b>5.3900</b>	<b>0.0000</b>	<b>3,093.7889</b>	<b>3,093.7889</b>	<b>0.9332</b>		<b>3,113.3860</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003			158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>			<b>158.7515</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	lb/day										lb/day						
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620			2,683.1890
<b>Total</b>	<b>3.4062</b>	<b>28.5063</b>	<b>18.5066</b>	<b>0.0268</b>		<b>1.9674</b>	<b>1.9674</b>		<b>1.8485</b>	<b>1.8485</b>		<b>2,669.2864</b>	<b>2,669.2864</b>	<b>0.6620</b>			<b>2,683.1890</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	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	0.3897	2.9392	4.6952	7.1400e-003	0.2047	0.0439	0.2486	0.0584	0.0403	0.0987		712.4047	712.4047	5.5700e-003			712.5216
Worker	0.2974	0.3447	4.1529	0.0101	0.7544	6.6500e-003	0.7611	0.2001	6.1200e-003	0.2062		845.7877	845.7877	0.0422			846.6748
<b>Total</b>	<b>0.6871</b>	<b>3.2838</b>	<b>8.8481</b>	<b>0.0172</b>	<b>0.9591</b>	<b>0.0505</b>	<b>1.0096</b>	<b>0.2585</b>	<b>0.0465</b>	<b>0.3049</b>		<b>1,558.1923</b>	<b>1,558.1923</b>	<b>0.0478</b>			<b>1,559.1964</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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485	0.0000	2,669.2864	2,669.2864	0.6620			2,683.1890
<b>Total</b>	<b>3.4062</b>	<b>28.5063</b>	<b>18.5066</b>	<b>0.0268</b>		<b>1.9674</b>	<b>1.9674</b>		<b>1.8485</b>	<b>1.8485</b>	<b>0.0000</b>	<b>2,669.2864</b>	<b>2,669.2864</b>	<b>0.6620</b>			<b>2,683.1890</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	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	0.3897	2.9392	4.6952	7.1400e-003	0.2047	0.0439	0.2486	0.0584	0.0403	0.0987		712.4047	712.4047	5.5700e-003			712.5216
Worker	0.2974	0.3447	4.1529	0.0101	0.7544	6.6500e-003	0.7611	0.2001	6.1200e-003	0.2062		845.7877	845.7877	0.0422			846.6748
<b>Total</b>	<b>0.6871</b>	<b>3.2838</b>	<b>8.8481</b>	<b>0.0172</b>	<b>0.9591</b>	<b>0.0505</b>	<b>1.0096</b>	<b>0.2585</b>	<b>0.0465</b>	<b>0.3049</b>		<b>1,558.1923</b>	<b>1,558.1923</b>	<b>0.0478</b>			<b>1,559.1964</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>		<b>2,639.8053</b>	<b>2,639.8053</b>	<b>0.6497</b>			<b>2,653.4490</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.3559	2.6484	4.3845	7.1300e-003	0.2048	0.0381	0.2428	0.0584	0.0350	0.0934		701.6880	701.6880	5.2900e-003			701.7991
Worker	0.2701	0.3118	3.7696	0.0101	0.7544	6.4400e-003	0.7609	0.2001	5.9400e-003	0.2060		813.4795	813.4795	0.0391			814.2996
<b>Total</b>	<b>0.6261</b>	<b>2.9602</b>	<b>8.1541</b>	<b>0.0172</b>	<b>0.9592</b>	<b>0.0445</b>	<b>1.0037</b>	<b>0.2585</b>	<b>0.0409</b>	<b>0.2994</b>		<b>1,515.1675</b>	<b>1,515.1675</b>	<b>0.0443</b>			<b>1,516.0987</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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>	<b>0.0000</b>	<b>2,639.8053</b>	<b>2,639.8053</b>	<b>0.6497</b>			<b>2,653.4490</b>

### 3.5 Building Construction - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.3559	2.6484	4.3845	7.1300e-003	0.2048	0.0381	0.2428	0.0584	0.0350	0.0934		701.6880	701.6880	5.2900e-003			701.7991
Worker	0.2701	0.3118	3.7696	0.0101	0.7544	6.4400e-003	0.7609	0.2001	5.9400e-003	0.2060		813.4795	813.4795	0.0391			814.2996
<b>Total</b>	<b>0.6261</b>	<b>2.9602</b>	<b>8.1541</b>	<b>0.0172</b>	<b>0.9592</b>	<b>0.0445</b>	<b>1.0037</b>	<b>0.2585</b>	<b>0.0409</b>	<b>0.2994</b>		<b>1,515.1675</b>	<b>1,515.1675</b>	<b>0.0443</b>			<b>1,516.0987</b>

### 3.6 Paving - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269		1,873.8264	1,873.8264	0.5588			1,885.5609
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.6554</b>	<b>16.8035</b>	<b>12.4837</b>	<b>0.0186</b>		<b>1.0056</b>	<b>1.0056</b>		<b>0.9269</b>	<b>0.9269</b>		<b>1,873.8264</b>	<b>1,873.8264</b>	<b>0.5588</b>			<b>1,885.5609</b>

### 3.6 Paving - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0675	0.0780	0.9424	2.5200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4900e-003	0.0515		203.3699	203.3699	9.7600e-003			203.5749
<b>Total</b>	<b>0.0675</b>	<b>0.0780</b>	<b>0.9424</b>	<b>2.5200e-003</b>	<b>0.1886</b>	<b>1.6100e-003</b>	<b>0.1902</b>	<b>0.0500</b>	<b>1.4900e-003</b>	<b>0.0515</b>		<b>203.3699</b>	<b>203.3699</b>	<b>9.7600e-003</b>			<b>203.5749</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	1.6554	16.8035	12.4837	0.0186		1.0056	1.0056		0.9269	0.9269	0.0000	1,873.8264	1,873.8264	0.5588			1,885.5609
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.6554</b>	<b>16.8035</b>	<b>12.4837</b>	<b>0.0186</b>		<b>1.0056</b>	<b>1.0056</b>		<b>0.9269</b>	<b>0.9269</b>	<b>0.0000</b>	<b>1,873.8264</b>	<b>1,873.8264</b>	<b>0.5588</b>			<b>1,885.5609</b>

### 3.6 Paving - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0675	0.0780	0.9424	2.5200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4900e-003	0.0515		203.3699	203.3699	9.7600e-003			203.5749
<b>Total</b>	<b>0.0675</b>	<b>0.0780</b>	<b>0.9424</b>	<b>2.5200e-003</b>	<b>0.1886</b>	<b>1.6100e-003</b>	<b>0.1902</b>	<b>0.0500</b>	<b>1.4900e-003</b>	<b>0.0515</b>		<b>203.3699</b>	<b>203.3699</b>	<b>9.7600e-003</b>			<b>203.5749</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	244.7100					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
<b>Total</b>	<b>245.0423</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>			<b>282.0721</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0540	0.0624	0.7539	2.0100e-003	0.1509	1.2900e-003	0.1522	0.0400	1.1900e-003	0.0412		162.6959	162.6959	7.8100e-003			162.8599
<b>Total</b>	<b>0.0540</b>	<b>0.0624</b>	<b>0.7539</b>	<b>2.0100e-003</b>	<b>0.1509</b>	<b>1.2900e-003</b>	<b>0.1522</b>	<b>0.0400</b>	<b>1.1900e-003</b>	<b>0.0412</b>		<b>162.6959</b>	<b>162.6959</b>	<b>7.8100e-003</b>			<b>162.8599</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						
Archit. Coating	244.7100					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721
<b>Total</b>	<b>245.0423</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>			<b>282.0721</b>

### 3.7 Architectural Coating - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	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	0.0540	0.0624	0.7539	2.0100e-003	0.1509	1.2900e-003	0.1522	0.0400	1.1900e-003	0.0412		162.6959	162.6959	7.8100e-003		162.8599
<b>Total</b>	<b>0.0540</b>	<b>0.0624</b>	<b>0.7539</b>	<b>2.0100e-003</b>	<b>0.1509</b>	<b>1.2900e-003</b>	<b>0.1522</b>	<b>0.0400</b>	<b>1.1900e-003</b>	<b>0.0412</b>		<b>162.6959</b>	<b>162.6959</b>	<b>7.8100e-003</b>		<b>162.8599</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	28.5568	35.4482	334.0912	2.5436	4.0597	0.4368	4.4965	1.1712	0.4368	1.6080		7,040.7162	7,040.7162	2.0286		7,083.3159
Unmitigated	28.5568	35.4482	334.0912	2.5436	4.0597	0.4368	4.4965	1.1712	0.4368	1.6080		7,040.7162	7,040.7162	2.0286		7,083.3159

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	830.04	830.04	830.04	2,107,906	2,107,906
<b>Total</b>	<b>830.04</b>	<b>830.04</b>	<b>830.04</b>	<b>2,107,906</b>	<b>2,107,906</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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 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	0.1525	1.3861	1.1643	8.3200e-003		0.1053	0.1053		0.1053	0.1053		1,663.2689	1,663.2689	0.0319	0.0305	1,673.3913
NaturalGas Unmitigated	0.1525	1.3861	1.1643	8.3200e-003		0.1053	0.1053		0.1053	0.1053		1,663.2689	1,663.2689	0.0319	0.0305	1,673.3913



### 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					
Junior College (2Yr)	14137.8	0.1525	1.3861	1.1643	8.3200e-003		0.1053	0.1053		0.1053	0.1053		1,663.2689	1,663.2689	0.0319	0.0305	1,673.3913
<b>Total</b>		<b>0.1525</b>	<b>1.3861</b>	<b>1.1643</b>	<b>8.3200e-003</b>		<b>0.1053</b>	<b>0.1053</b>		<b>0.1053</b>	<b>0.1053</b>		<b>1,663.2689</b>	<b>1,663.2689</b>	<b>0.0319</b>	<b>0.0305</b>	<b>1,673.3913</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					
Junior College (2Yr)	14.1378	0.1525	1.3861	1.1643	8.3200e-003		0.1053	0.1053		0.1053	0.1053		1,663.2689	1,663.2689	0.0319	0.0305	1,673.3913
<b>Total</b>		<b>0.1525</b>	<b>1.3861</b>	<b>1.1643</b>	<b>8.3200e-003</b>		<b>0.1053</b>	<b>0.1053</b>		<b>0.1053</b>	<b>0.1053</b>		<b>1,663.2689</b>	<b>1,663.2689</b>	<b>0.0319</b>	<b>0.0305</b>	<b>1,673.3913</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	5.2825	2.3000e-004	0.0633	2.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0416	0.0416	7.8000e-004		0.0581
Unmitigated	5.2825	2.3000e-004	0.0633	2.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0416	0.0416	7.8000e-004		0.0581

## 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	1.2068					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.0674					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.3200e-003	2.3000e-004	0.0633	2.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0416	0.0416	7.8000e-004		0.0581
<b>Total</b>	<b>5.2825</b>	<b>2.3000e-004</b>	<b>0.0633</b>	<b>2.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>0.0416</b>	<b>0.0416</b>	<b>7.8000e-004</b>		<b>0.0581</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	lb/day										lb/day					
Architectural Coating	1.2068					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.0674					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.3200e-003	2.3000e-004	0.0633	2.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.0416	0.0416	7.8000e-004		0.0581
<b>Total</b>	<b>5.2825</b>	<b>2.3000e-004</b>	<b>0.0633</b>	<b>2.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>0.0416</b>	<b>0.0416</b>	<b>7.8000e-004</b>		<b>0.0581</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 30**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	99.55	1000sqft	2.29	99,552.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.433 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2005
tblVehicleTrips	ST_TR	11.23	7.43
tblVehicleTrips	SU_TR	1.21	7.43
tblVehicleTrips	WD_TR	27.49	7.43

## 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	lb/day										lb/day					
Area	2.7642	1.5000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0218	0.0218	1.0000e-004		0.0239
Energy	0.0799	0.7260	0.6098	4.3600e-003		0.0552	0.0552		0.0552	0.0552		871.1803	871.1803	0.0167	0.0160	876.4821
Mobile	7.0595	13.2482	73.7838	0.1252	3.6188	0.2895	3.9083	1.0438	0.2895	1.3332		6,480.154 2	6,480.154 2	0.6244		6,493.267 4
<b>Total</b>	<b>9.9036</b>	<b>13.9743</b>	<b>74.4065</b>	<b>0.1296</b>	<b>3.6188</b>	<b>0.3447</b>	<b>3.9635</b>	<b>1.0438</b>	<b>0.3447</b>	<b>1.3885</b>		<b>7,351.356 2</b>	<b>7,351.356 2</b>	<b>0.6412</b>	<b>0.0160</b>	<b>7,369.773 4</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	2.7642	1.5000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0218	0.0218	1.0000e-004		0.0239
Energy	0.0799	0.7260	0.6098	4.3600e-003		0.0552	0.0552		0.0552	0.0552		871.1803	871.1803	0.0167	0.0160	876.4821
Mobile	7.0595	13.2482	73.7838	0.1252	3.6188	0.2895	3.9083	1.0438	0.2895	1.3332		6,480.154 2	6,480.154 2	0.6244		6,493.267 4
<b>Total</b>	<b>9.9036</b>	<b>13.9743</b>	<b>74.4065</b>	<b>0.1296</b>	<b>3.6188</b>	<b>0.3447</b>	<b>3.9635</b>	<b>1.0438</b>	<b>0.3447</b>	<b>1.3885</b>		<b>7,351.356 2</b>	<b>7,351.356 2</b>	<b>0.6412</b>	<b>0.0160</b>	<b>7,369.773 4</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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/2/2016	5	3	
3	Grading	Grading	2/3/2016	2/10/2016	5	6	
4	Building Construction	Building Construction	2/11/2016	12/14/2016	5	220	
5	Paving	Paving	12/15/2016	12/28/2016	5	10	
6	Architectural Coating	Architectural Coating	12/29/2016	1/11/2017	5	10	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 149,328; Non-Residential Outdoor: 49,776 (Architectural Coating – sqft)**

#### OffRoad Equipment



Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	42.00	16.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328		2,487.1296	2,487.1296	0.6288		2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>		<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>		<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328	0.0000	2,487.1296	2,487.1296	0.6288			2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>	<b>0.0000</b>	<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>			<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003		137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>		<b>137.5847</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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.6992	30.8238	18.0600	0.0239		1.5116	1.5116		1.3907	1.3907		2,480.1000	2,480.1000	0.7481		2,495.8099
<b>Total</b>	<b>2.6992</b>	<b>30.8238</b>	<b>18.0600</b>	<b>0.0239</b>	<b>1.5908</b>	<b>1.5116</b>	<b>3.1024</b>	<b>0.1718</b>	<b>1.3907</b>	<b>1.5625</b>		<b>2,480.1000</b>	<b>2,480.1000</b>	<b>0.7481</b>		<b>2,495.8099</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000	
Off-Road	2.6992	30.8238	18.0600	0.0239		1.5116	1.5116		1.3907	1.3907	0.0000	2,480.1000	2,480.1000	0.7481			2,495.8099
<b>Total</b>	<b>2.6992</b>	<b>30.8238</b>	<b>18.0600</b>	<b>0.0239</b>	<b>1.5908</b>	<b>1.5116</b>	<b>3.1024</b>	<b>0.1718</b>	<b>1.3907</b>	<b>1.5625</b>	<b>0.0000</b>	<b>2,480.1000</b>	<b>2,480.1000</b>	<b>0.7481</b>			<b>2,495.8099</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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	lb/day										lb/day						
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000				0.0000
Off-Road	2.8530	29.9470	19.6345	0.0206		1.6671	1.6671		1.5337	1.5337		2,139.274 2	2,139.274 2	0.6453			2,152.825 1
<b>Total</b>	<b>2.8530</b>	<b>29.9470</b>	<b>19.6345</b>	<b>0.0206</b>	<b>6.5523</b>	<b>1.6671</b>	<b>8.2195</b>	<b>3.3675</b>	<b>1.5337</b>	<b>4.9012</b>		<b>2,139.274 2</b>	<b>2,139.274 2</b>	<b>0.6453</b>			<b>2,152.825 1</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	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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003			105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>			<b>105.8344</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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000	
Off-Road	2.8530	29.9470	19.6345	0.0206		1.6671	1.6671		1.5337	1.5337	0.0000	2,139.274 2	2,139.274 2	0.6453			2,152.825 1
<b>Total</b>	<b>2.8530</b>	<b>29.9470</b>	<b>19.6345</b>	<b>0.0206</b>	<b>6.5523</b>	<b>1.6671</b>	<b>8.2195</b>	<b>3.3675</b>	<b>1.5337</b>	<b>4.9012</b>	<b>0.0000</b>	<b>2,139.274 2</b>	<b>2,139.274 2</b>	<b>0.6453</b>			<b>2,152.825 1</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	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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003			105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>			<b>105.8344</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	lb/day										lb/day						
Off-Road	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569		2,352.2239	2,352.2239	0.5420			2,363.6057
<b>Total</b>	<b>3.6984</b>	<b>24.6320</b>	<b>16.7166</b>	<b>0.0249</b>		<b>1.6257</b>	<b>1.6257</b>		<b>1.5569</b>	<b>1.5569</b>		<b>2,352.2239</b>	<b>2,352.2239</b>	<b>0.5420</b>			<b>2,363.6057</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	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	0.2011	1.5170	2.4233	3.6800e-003	0.1056	0.0227	0.1283	0.0301	0.0208	0.0509		367.6927	367.6927	2.8700e-003			367.7531
Worker	0.1561	0.1810	2.1803	5.2800e-003	0.3961	3.4900e-003	0.3996	0.1051	3.2100e-003	0.1083		444.0385	444.0385	0.0222			444.5043
<b>Total</b>	<b>0.3573</b>	<b>1.6979</b>	<b>4.6036</b>	<b>8.9600e-003</b>	<b>0.5017</b>	<b>0.0261</b>	<b>0.5279</b>	<b>0.1352</b>	<b>0.0240</b>	<b>0.1592</b>		<b>811.7313</b>	<b>811.7313</b>	<b>0.0251</b>			<b>812.2573</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	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569	0.0000	2,352.2239	2,352.2239	0.5420			2,363.6057
<b>Total</b>	<b>3.6984</b>	<b>24.6320</b>	<b>16.7166</b>	<b>0.0249</b>		<b>1.6257</b>	<b>1.6257</b>		<b>1.5569</b>	<b>1.5569</b>	<b>0.0000</b>	<b>2,352.2239</b>	<b>2,352.2239</b>	<b>0.5420</b>			<b>2,363.6057</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	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	0.2011	1.5170	2.4233	3.6800e-003	0.1056	0.0227	0.1283	0.0301	0.0208	0.0509		367.6927	367.6927	2.8700e-003			367.7531
Worker	0.1561	0.1810	2.1803	5.2800e-003	0.3961	3.4900e-003	0.3996	0.1051	3.2100e-003	0.1083		444.0385	444.0385	0.0222			444.5043
<b>Total</b>	<b>0.3573</b>	<b>1.6979</b>	<b>4.6036</b>	<b>8.9600e-003</b>	<b>0.5017</b>	<b>0.0261</b>	<b>0.5279</b>	<b>0.1352</b>	<b>0.0240</b>	<b>0.1592</b>		<b>811.7313</b>	<b>811.7313</b>	<b>0.0251</b>			<b>812.2573</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	lb/day										lb/day						
Off-Road	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363		1,804.8600	1,804.8600	0.5344			1,816.0828
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.7811</b>	<b>17.9300</b>	<b>12.1433</b>	<b>0.0176</b>		<b>1.1252</b>	<b>1.1252</b>		<b>1.0363</b>	<b>1.0363</b>		<b>1,804.8600</b>	<b>1,804.8600</b>	<b>0.5344</b>			<b>1,816.0828</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003		158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>		<b>158.7515</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	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363	0.0000	1,804.8600	1,804.8600	0.5344		1,816.0828
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7811</b>	<b>17.9300</b>	<b>12.1433</b>	<b>0.0176</b>		<b>1.1252</b>	<b>1.1252</b>		<b>1.0363</b>	<b>1.0363</b>	<b>0.0000</b>	<b>1,804.8600</b>	<b>1,804.8600</b>	<b>0.5344</b>		<b>1,816.0828</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003			158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>			<b>158.7515</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	lb/day										lb/day						
Archit. Coating	230.7118					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
<b>Total</b>	<b>231.0802</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>			<b>282.1449</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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						
Archit. Coating	230.7118					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332			282.1449
<b>Total</b>	<b>231.0802</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>			<b>282.1449</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	230.7118					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
<b>Total</b>	<b>231.0441</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>			<b>282.0721</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0270	0.0312	0.3770	1.0100e-003	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		81.3480	81.3480	3.9100e-003			81.4300
<b>Total</b>	<b>0.0270</b>	<b>0.0312</b>	<b>0.3770</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.4000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>5.9000e-004</b>	<b>0.0206</b>		<b>81.3480</b>	<b>81.3480</b>	<b>3.9100e-003</b>			<b>81.4300</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						
Archit. Coating	230.7118					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721
<b>Total</b>	<b>231.0441</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>			<b>282.0721</b>

### 3.7 Architectural Coating - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	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	0.0270	0.0312	0.3770	1.0100e-003	0.0754	6.4000e-004	0.0761	0.0200	5.9000e-004	0.0206		81.3480	81.3480	3.9100e-003		81.4300
<b>Total</b>	<b>0.0270</b>	<b>0.0312</b>	<b>0.3770</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.4000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>5.9000e-004</b>	<b>0.0206</b>		<b>81.3480</b>	<b>81.3480</b>	<b>3.9100e-003</b>		<b>81.4300</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	7.0595	13.2482	73.7838	0.1252	3.6188	0.2895	3.9083	1.0438	0.2895	1.3332		6,480.154 2	6,480.154 2	0.6244		6,493.267 4
Unmitigated	7.0595	13.2482	73.7838	0.1252	3.6188	0.2895	3.9083	1.0438	0.2895	1.3332		6,480.154 2	6,480.154 2	0.6244		6,493.267 4



### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	739.97	739.97	739.97	1,879,181	1,879,181
<b>Total</b>	<b>739.97</b>	<b>739.97</b>	<b>739.97</b>	<b>1,879,181</b>	<b>1,879,181</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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 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	0.0799	0.7260	0.6098	4.3600e-003		0.0552	0.0552		0.0552	0.0552		871.1803	871.1803	0.0167	0.0160	876.4821
NaturalGas Unmitigated	0.0799	0.7260	0.6098	4.3600e-003		0.0552	0.0552		0.0552	0.0552		871.1803	871.1803	0.0167	0.0160	876.4821

### 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					
Junior College (2Yr)	7405.03	0.0799	0.7260	0.6098	4.3600e-003		0.0552	0.0552		0.0552	0.0552		871.1803	871.1803	0.0167	0.0160	876.4821
<b>Total</b>		<b>0.0799</b>	<b>0.7260</b>	<b>0.6098</b>	<b>4.3600e-003</b>		<b>0.0552</b>	<b>0.0552</b>		<b>0.0552</b>	<b>0.0552</b>		<b>871.1803</b>	<b>871.1803</b>	<b>0.0167</b>	<b>0.0160</b>	<b>876.4821</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					
Junior College (2Yr)	7.40503	0.0799	0.7260	0.6098	4.3600e-003		0.0552	0.0552		0.0552	0.0552		871.1803	871.1803	0.0167	0.0160	876.4821
<b>Total</b>		<b>0.0799</b>	<b>0.7260</b>	<b>0.6098</b>	<b>4.3600e-003</b>		<b>0.0552</b>	<b>0.0552</b>		<b>0.0552</b>	<b>0.0552</b>		<b>871.1803</b>	<b>871.1803</b>	<b>0.0167</b>	<b>0.0160</b>	<b>876.4821</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	2.7642	1.5000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0218	0.0218	1.0000e-004		0.0239
Unmitigated	2.7642	1.5000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0218	0.0218	1.0000e-004		0.0239

## 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	0.6321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1304					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6700e-003	1.5000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0218	0.0218	1.0000e-004		0.0239
<b>Total</b>	<b>2.7642</b>	<b>1.5000e-004</b>	<b>0.0129</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0218</b>	<b>0.0218</b>	<b>1.0000e-004</b>		<b>0.0239</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	lb/day										lb/day					
Consumer Products	2.1304					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6700e-003	1.5000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0218	0.0218	1.0000e-004		0.0239
Architectural Coating	0.6321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.7642</b>	<b>1.5000e-004</b>	<b>0.0129</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0218</b>	<b>0.0218</b>	<b>1.0000e-004</b>		<b>0.0239</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 31**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	73.67	1000sqft	1.69	73,666.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.33 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2005
tblVehicleTrips	ST_TR	11.23	7.33
tblVehicleTrips	SU_TR	1.21	7.33
tblVehicleTrips	WD_TR	27.49	7.33

## 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	lb/day										lb/day					
Area	2.0454	1.1000e-004	9.5700e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0161	0.0161	8.0000e-005		0.0177
Energy	0.0591	0.5372	0.4513	3.2200e-003		0.0408	0.0408		0.0408	0.0408		644.6517	644.6517	0.0124	0.0118	648.5749
Mobile	5.1515	9.6675	53.8416	0.0914	2.6407	0.2112	2.8520	0.7617	0.2112	0.9729		4,728.7056	4,728.7056	0.4557		4,738.2746
<b>Total</b>	<b>7.2560</b>	<b>10.2048</b>	<b>54.3024</b>	<b>0.0946</b>	<b>2.6407</b>	<b>0.2521</b>	<b>2.8929</b>	<b>0.7617</b>	<b>0.2521</b>	<b>1.0138</b>		<b>5,373.3734</b>	<b>5,373.3734</b>	<b>0.4681</b>	<b>0.0118</b>	<b>5,386.8672</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	2.0454	1.1000e-004	9.5700e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0161	0.0161	8.0000e-005		0.0177
Energy	0.0591	0.5372	0.4513	3.2200e-003		0.0408	0.0408		0.0408	0.0408		644.6517	644.6517	0.0124	0.0118	648.5749
Mobile	5.1515	9.6675	53.8416	0.0914	2.6407	0.2112	2.8520	0.7617	0.2112	0.9729		4,728.7056	4,728.7056	0.4557		4,738.2746
<b>Total</b>	<b>7.2560</b>	<b>10.2048</b>	<b>54.3024</b>	<b>0.0946</b>	<b>2.6407</b>	<b>0.2521</b>	<b>2.8929</b>	<b>0.7617</b>	<b>0.2521</b>	<b>1.0138</b>		<b>5,373.3734</b>	<b>5,373.3734</b>	<b>0.4681</b>	<b>0.0118</b>	<b>5,386.8672</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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/1/2016	5	2	
3	Grading	Grading	2/2/2016	2/5/2016	5	4	
4	Building Construction	Building Construction	2/6/2016	11/11/2016	5	200	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

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: 110,499; Non-Residential Outdoor: 36,833 (Architectural Coating – sqft)

#### OffRoad Equipment

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

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	31.00	12.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328		2,487.1296	2,487.1296	0.6288		2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>		<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>		<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328	0.0000	2,487.1296	2,487.1296	0.6288			2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>	<b>0.0000</b>	<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>			<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</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	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	2.4428	25.7718	16.5144	0.0171		1.3985	1.3985		1.2866	1.2866		1,781.087 2	1,781.087 2	0.5372		1,792.369 3
<b>Total</b>	<b>2.4428</b>	<b>25.7718</b>	<b>16.5144</b>	<b>0.0171</b>	<b>5.7996</b>	<b>1.3985</b>	<b>7.1981</b>	<b>2.9537</b>	<b>1.2866</b>	<b>4.2403</b>		<b>1,781.087 2</b>	<b>1,781.087 2</b>	<b>0.5372</b>		<b>1,792.369 3</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000	
Off-Road	2.4428	25.7718	16.5144	0.0171		1.3985	1.3985		1.2866	1.2866	0.0000	1,781.087 2	1,781.087 2	0.5372			1,792.369 3
<b>Total</b>	<b>2.4428</b>	<b>25.7718</b>	<b>16.5144</b>	<b>0.0171</b>	<b>5.7996</b>	<b>1.3985</b>	<b>7.1981</b>	<b>2.9537</b>	<b>1.2866</b>	<b>4.2403</b>	<b>0.0000</b>	<b>1,781.087 2</b>	<b>1,781.087 2</b>	<b>0.5372</b>			<b>1,792.369 3</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003		84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>		<b>84.6675</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	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.9908	21.0361	13.6704	0.0141		1.1407	1.1407		1.0494	1.0494		1,462.8468	1,462.8468	0.4413		1,472.1130
<b>Total</b>	<b>1.9908</b>	<b>21.0361</b>	<b>13.6704</b>	<b>0.0141</b>	<b>4.9143</b>	<b>1.1407</b>	<b>6.0549</b>	<b>2.5256</b>	<b>1.0494</b>	<b>3.5750</b>		<b>1,462.8468</b>	<b>1,462.8468</b>	<b>0.4413</b>		<b>1,472.1130</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000	
Off-Road	1.9908	21.0361	13.6704	0.0141		1.1407	1.1407		1.0494	1.0494	0.0000	1,462.8468	1,462.8468	0.4413			1,472.1130
<b>Total</b>	<b>1.9908</b>	<b>21.0361</b>	<b>13.6704</b>	<b>0.0141</b>	<b>4.9143</b>	<b>1.1407</b>	<b>6.0549</b>	<b>2.5256</b>	<b>1.0494</b>	<b>3.5750</b>	<b>0.0000</b>	<b>1,462.8468</b>	<b>1,462.8468</b>	<b>0.4413</b>			<b>1,472.1130</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003		84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>		<b>84.6675</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	lb/day										lb/day					
Off-Road	3.2915	20.5459	14.7074	0.0220		1.3656	1.3656		1.3176	1.3176		2,046.9432	2,046.9432	0.4499		2,056.3913
<b>Total</b>	<b>3.2915</b>	<b>20.5459</b>	<b>14.7074</b>	<b>0.0220</b>		<b>1.3656</b>	<b>1.3656</b>		<b>1.3176</b>	<b>1.3176</b>		<b>2,046.9432</b>	<b>2,046.9432</b>	<b>0.4499</b>		<b>2,056.3913</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	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	0.1508	1.1377	1.8175	2.7600e-003	0.0792	0.0170	0.0962	0.0226	0.0156	0.0382		275.7696	275.7696	2.1500e-003			275.8148
Worker	0.1153	0.1336	1.6092	3.9000e-003	0.2923	2.5800e-003	0.2949	0.0775	2.3700e-003	0.0799		327.7427	327.7427	0.0164			328.0865
<b>Total</b>	<b>0.2661</b>	<b>1.2713</b>	<b>3.4267</b>	<b>6.6600e-003</b>	<b>0.3716</b>	<b>0.0196</b>	<b>0.3911</b>	<b>0.1001</b>	<b>0.0180</b>	<b>0.1181</b>		<b>603.5123</b>	<b>603.5123</b>	<b>0.0185</b>			<b>603.9013</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	3.2915	20.5459	14.7074	0.0220		1.3656	1.3656		1.3176	1.3176	0.0000	2,046.9432	2,046.9432	0.4499			2,056.3913
<b>Total</b>	<b>3.2915</b>	<b>20.5459</b>	<b>14.7074</b>	<b>0.0220</b>		<b>1.3656</b>	<b>1.3656</b>		<b>1.3176</b>	<b>1.3176</b>	<b>0.0000</b>	<b>2,046.9432</b>	<b>2,046.9432</b>	<b>0.4499</b>			<b>2,056.3913</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	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	0.1508	1.1377	1.8175	2.7600e-003	0.0792	0.0170	0.0962	0.0226	0.0156	0.0382		275.7696	275.7696	2.1500e-003		275.8148
Worker	0.1153	0.1336	1.6092	3.9000e-003	0.2923	2.5800e-003	0.2949	0.0775	2.3700e-003	0.0799		327.7427	327.7427	0.0164		328.0865
<b>Total</b>	<b>0.2661</b>	<b>1.2713</b>	<b>3.4267</b>	<b>6.6600e-003</b>	<b>0.3716</b>	<b>0.0196</b>	<b>0.3911</b>	<b>0.1001</b>	<b>0.0180</b>	<b>0.1181</b>		<b>603.5123</b>	<b>603.5123</b>	<b>0.0185</b>		<b>603.9013</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	lb/day										lb/day					
Off-Road	1.2872	13.2076	9.0880	0.0133		0.8075	0.8075		0.7438	0.7438		1,368.4366	1,368.4366	0.4053		1,376.9473
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2872</b>	<b>13.2076</b>	<b>9.0880</b>	<b>0.0133</b>		<b>0.8075</b>	<b>0.8075</b>		<b>0.7438</b>	<b>0.7438</b>		<b>1,368.4366</b>	<b>1,368.4366</b>	<b>0.4053</b>		<b>1,376.9473</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</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	1.2872	13.2076	9.0880	0.0133		0.8075	0.8075		0.7438	0.7438	0.0000	1,368.4366	1,368.4366	0.4053			1,376.9473
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.2872</b>	<b>13.2076</b>	<b>9.0880</b>	<b>0.0133</b>		<b>0.8075</b>	<b>0.8075</b>		<b>0.7438</b>	<b>0.7438</b>	<b>0.0000</b>	<b>1,368.4366</b>	<b>1,368.4366</b>	<b>0.4053</b>			<b>1,376.9473</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003		137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>		<b>137.5847</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	lb/day										lb/day					
Archit. Coating	170.7210					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>171.0894</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	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	0.0223	0.0259	0.3115	7.5000e-004	0.0566	5.0000e-004	0.0571	0.0150	4.6000e-004	0.0155		63.4341	63.4341	3.1700e-003		63.5006
<b>Total</b>	<b>0.0223</b>	<b>0.0259</b>	<b>0.3115</b>	<b>7.5000e-004</b>	<b>0.0566</b>	<b>5.0000e-004</b>	<b>0.0571</b>	<b>0.0150</b>	<b>4.6000e-004</b>	<b>0.0155</b>		<b>63.4341</b>	<b>63.4341</b>	<b>3.1700e-003</b>		<b>63.5006</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					
Archit. Coating	170.7210					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>171.0894</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	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	0.0223	0.0259	0.3115	7.5000e-004	0.0566	5.0000e-004	0.0571	0.0150	4.6000e-004	0.0155		63.4341	63.4341	3.1700e-003		63.5006
<b>Total</b>	<b>0.0223</b>	<b>0.0259</b>	<b>0.3115</b>	<b>7.5000e-004</b>	<b>0.0566</b>	<b>5.0000e-004</b>	<b>0.0571</b>	<b>0.0150</b>	<b>4.6000e-004</b>	<b>0.0155</b>		<b>63.4341</b>	<b>63.4341</b>	<b>3.1700e-003</b>		<b>63.5006</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	5.1515	9.6675	53.8416	0.0914	2.6407	0.2112	2.8520	0.7617	0.2112	0.9729		4,728.7056	4,728.7056	0.4557		4,738.2746
Unmitigated	5.1515	9.6675	53.8416	0.0914	2.6407	0.2112	2.8520	0.7617	0.2112	0.9729		4,728.7056	4,728.7056	0.4557		4,738.2746

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	539.97	539.97	539.97	1,371,278	1,371,278
Total	539.97	539.97	539.97	1,371,278	1,371,278

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 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	0.0591	0.5372	0.4513	3.2200e-003		0.0408	0.0408		0.0408	0.0408		644.6517	644.6517	0.0124	0.0118	648.5749
NaturalGas Unmitigated	0.0591	0.5372	0.4513	3.2200e-003		0.0408	0.0408		0.0408	0.0408		644.6517	644.6517	0.0124	0.0118	648.5749



### 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					
Junior College (2Yr)	5479.54	0.0591	0.5372	0.4513	3.2200e-003		0.0408	0.0408		0.0408	0.0408		644.6517	644.6517	0.0124	0.0118	648.5749
<b>Total</b>		<b>0.0591</b>	<b>0.5372</b>	<b>0.4513</b>	<b>3.2200e-003</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>		<b>644.6517</b>	<b>644.6517</b>	<b>0.0124</b>	<b>0.0118</b>	<b>648.5749</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					
Junior College (2Yr)	5.47954	0.0591	0.5372	0.4513	3.2200e-003		0.0408	0.0408		0.0408	0.0408		644.6517	644.6517	0.0124	0.0118	648.5749
<b>Total</b>		<b>0.0591</b>	<b>0.5372</b>	<b>0.4513</b>	<b>3.2200e-003</b>		<b>0.0408</b>	<b>0.0408</b>		<b>0.0408</b>	<b>0.0408</b>		<b>644.6517</b>	<b>644.6517</b>	<b>0.0124</b>	<b>0.0118</b>	<b>648.5749</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	2.0454	1.1000e-004	9.5700e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0161	0.0161	8.0000e-005		0.0177
Unmitigated	2.0454	1.1000e-004	9.5700e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0161	0.0161	8.0000e-005		0.0177

## 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	0.4677					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2400e-003	1.1000e-004	9.5700e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0161	0.0161	8.0000e-005		0.0177
<b>Total</b>	<b>2.0454</b>	<b>1.1000e-004</b>	<b>9.5700e-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>0.0161</b>	<b>0.0161</b>	<b>8.0000e-005</b>		<b>0.0177</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	lb/day										lb/day					
Architectural Coating	0.4677					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5765					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2400e-003	1.1000e-004	9.5700e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0161	0.0161	8.0000e-005		0.0177
<b>Total</b>	<b>2.0454</b>	<b>1.1000e-004</b>	<b>9.5700e-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>0.0161</b>	<b>0.0161</b>	<b>8.0000e-005</b>		<b>0.0177</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 33**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	25.92	1000sqft	0.60	25,920.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.33 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2005
tblVehicleTrips	ST_TR	11.23	7.33
tblVehicleTrips	SU_TR	1.21	7.33
tblVehicleTrips	WD_TR	27.49	7.33

## 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	lb/day										lb/day					
Area	0.7197	4.0000e-005	3.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6700e-003	5.6700e-003	3.0000e-005		6.2300e-003
Energy	0.0208	0.1890	0.1588	1.1300e-003		0.0144	0.0144		0.0144	0.0144		226.8261	226.8261	4.3500e-003	4.1600e-003	228.2065
Mobile	1.8126	3.4016	18.9446	0.0321	0.9292	0.0743	1.0035	0.2680	0.0743	0.3423		1,663.8347	1,663.8347	0.1603		1,667.2017
<b>Total</b>	<b>2.5531</b>	<b>3.5907</b>	<b>19.1068</b>	<b>0.0333</b>	<b>0.9292</b>	<b>0.0887</b>	<b>1.0179</b>	<b>0.2680</b>	<b>0.0887</b>	<b>0.3567</b>		<b>1,890.6665</b>	<b>1,890.6665</b>	<b>0.1647</b>	<b>4.1600e-003</b>	<b>1,895.4144</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	0.7197	4.0000e-005	3.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6700e-003	5.6700e-003	3.0000e-005		6.2300e-003
Energy	0.0208	0.1890	0.1588	1.1300e-003		0.0144	0.0144		0.0144	0.0144		226.8261	226.8261	4.3500e-003	4.1600e-003	228.2065
Mobile	1.8126	3.4016	18.9446	0.0321	0.9292	0.0743	1.0035	0.2680	0.0743	0.3423		1,663.8347	1,663.8347	0.1603		1,667.2017
<b>Total</b>	<b>2.5531</b>	<b>3.5907</b>	<b>19.1068</b>	<b>0.0333</b>	<b>0.9292</b>	<b>0.0887</b>	<b>1.0179</b>	<b>0.2680</b>	<b>0.0887</b>	<b>0.3567</b>		<b>1,890.6665</b>	<b>1,890.6665</b>	<b>0.1647</b>	<b>4.1600e-003</b>	<b>1,895.4144</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 38,880; Non-Residential Outdoor: 12,960 (Architectural Coating – sqft)

#### OffRoad Equipment



Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	11.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.2 Demolition - 2016

#### 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	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>		<b>0.8039</b>	<b>0.8039</b>		<b>0.7674</b>	<b>0.7674</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671		973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>		<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3593	13.6350	7.3401	9.3500e-003		0.8338	0.8338		0.7671	0.7671	0.0000	973.0842	973.0842	0.2935		979.2481
<b>Total</b>	<b>1.3593</b>	<b>13.6350</b>	<b>7.3401</b>	<b>9.3500e-003</b>	<b>0.5303</b>	<b>0.8338</b>	<b>1.3640</b>	<b>0.0573</b>	<b>0.7671</b>	<b>0.8243</b>	<b>0.0000</b>	<b>973.0842</b>	<b>973.0842</b>	<b>0.2935</b>		<b>979.2481</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	0.0186	0.0215	0.2596	6.3000e-004	0.0472	4.2000e-004	0.0476	0.0125	3.8000e-004	0.0129		52.8617	52.8617	2.6400e-003		52.9172
<b>Total</b>	<b>0.0186</b>	<b>0.0215</b>	<b>0.2596</b>	<b>6.3000e-004</b>	<b>0.0472</b>	<b>4.2000e-004</b>	<b>0.0476</b>	<b>0.0125</b>	<b>3.8000e-004</b>	<b>0.0129</b>		<b>52.8617</b>	<b>52.8617</b>	<b>2.6400e-003</b>		<b>52.9172</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	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674		1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>		<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</b>

### 3.4 Grading - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	1.3122	11.2385	8.7048	0.0120		0.8039	0.8039		0.7674	0.7674	0.0000	1,193.6106	1,193.6106	0.2386		1,198.6217
<b>Total</b>	<b>1.3122</b>	<b>11.2385</b>	<b>8.7048</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.8039</b>	<b>1.5566</b>	<b>0.4138</b>	<b>0.7674</b>	<b>1.1811</b>	<b>0.0000</b>	<b>1,193.6106</b>	<b>1,193.6106</b>	<b>0.2386</b>		<b>1,198.6217</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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003		105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>		<b>105.8344</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	lb/day										lb/day					
Off-Road	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646		1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>		<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0503	0.3793	0.6058	9.2000e-004	0.0264	5.6600e-003	0.0321	7.5300e-003	5.2000e-003	0.0127		91.9232	91.9232	7.2000e-004		91.9383
Worker	0.0409	0.0474	0.5710	1.3800e-003	0.1037	9.1000e-004	0.1047	0.0275	8.4000e-004	0.0284		116.2958	116.2958	5.8100e-003		116.4178
<b>Total</b>	<b>0.0912</b>	<b>0.4266</b>	<b>1.1769</b>	<b>2.3000e-003</b>	<b>0.1301</b>	<b>6.5700e-003</b>	<b>0.1367</b>	<b>0.0350</b>	<b>6.0400e-003</b>	<b>0.0411</b>		<b>208.2190</b>	<b>208.2190</b>	<b>6.5300e-003</b>		<b>208.3561</b>



### 3.5 Building Construction - 2016

#### 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	1.3816	13.7058	8.2122	0.0113		0.9398	0.9398		0.8646	0.8646	0.0000	1,178.5549	1,178.5549	0.3555		1,186.0202
<b>Total</b>	<b>1.3816</b>	<b>13.7058</b>	<b>8.2122</b>	<b>0.0113</b>		<b>0.9398</b>	<b>0.9398</b>		<b>0.8646</b>	<b>0.8646</b>	<b>0.0000</b>	<b>1,178.5549</b>	<b>1,178.5549</b>	<b>0.3555</b>		<b>1,186.0202</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	0.0503	0.3793	0.6058	9.2000e-004	0.0264	5.6600e-003	0.0321	7.5300e-003	5.2000e-003	0.0127		91.9232	91.9232	7.2000e-004		91.9383
Worker	0.0409	0.0474	0.5710	1.3800e-003	0.1037	9.1000e-004	0.1047	0.0275	8.4000e-004	0.0284		116.2958	116.2958	5.8100e-003		116.4178
<b>Total</b>	<b>0.0912</b>	<b>0.4266</b>	<b>1.1769</b>	<b>2.3000e-003</b>	<b>0.1301</b>	<b>6.5700e-003</b>	<b>0.1367</b>	<b>0.0350</b>	<b>6.0400e-003</b>	<b>0.0411</b>		<b>208.2190</b>	<b>208.2190</b>	<b>6.5300e-003</b>		<b>208.3561</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	lb/day										lb/day					
Off-Road	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113		1,083.5832	1,083.5832	0.2969		1,089.8175
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>		<b>1,083.5832</b>	<b>1,083.5832</b>	<b>0.2969</b>		<b>1,089.8175</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</b>

### 3.6 Paving - 2016

#### 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	1.1203	10.6282	7.2935	0.0111		0.6606	0.6606		0.6113	0.6113	0.0000	1,083.583 2	1,083.583 2	0.2969		1,089.817 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1203</b>	<b>10.6282</b>	<b>7.2935</b>	<b>0.0111</b>		<b>0.6606</b>	<b>0.6606</b>		<b>0.6113</b>	<b>0.6113</b>	<b>0.0000</b>	<b>1,083.583 2</b>	<b>1,083.583 2</b>	<b>0.2969</b>		<b>1,089.817 5</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	0.0669	0.0776	0.9344	2.2600e-003	0.1698	1.5000e-003	0.1712	0.0450	1.3800e-003	0.0464		190.3022	190.3022	9.5100e-003		190.5018
<b>Total</b>	<b>0.0669</b>	<b>0.0776</b>	<b>0.9344</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.5000e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3800e-003</b>	<b>0.0464</b>		<b>190.3022</b>	<b>190.3022</b>	<b>9.5100e-003</b>		<b>190.5018</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	lb/day										lb/day					
Archit. Coating	120.1392					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>120.5077</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</b>

### 3.7 Architectural Coating - 2016

#### 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	120.1392					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>120.5077</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	7.4400e-003	8.6200e-003	0.1038	2.5000e-004	0.0189	1.7000e-004	0.0190	5.0000e-003	1.5000e-004	5.1600e-003		21.1447	21.1447	1.0600e-003		21.1669
<b>Total</b>	<b>7.4400e-003</b>	<b>8.6200e-003</b>	<b>0.1038</b>	<b>2.5000e-004</b>	<b>0.0189</b>	<b>1.7000e-004</b>	<b>0.0190</b>	<b>5.0000e-003</b>	<b>1.5000e-004</b>	<b>5.1600e-003</b>		<b>21.1447</b>	<b>21.1447</b>	<b>1.0600e-003</b>		<b>21.1669</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	1.8126	3.4016	18.9446	0.0321	0.9292	0.0743	1.0035	0.2680	0.0743	0.3423		1,663.8347	1,663.8347	0.1603		1,667.2017
Unmitigated	1.8126	3.4016	18.9446	0.0321	0.9292	0.0743	1.0035	0.2680	0.0743	0.3423		1,663.8347	1,663.8347	0.1603		1,667.2017

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	189.99	189.99	189.99	482,496	482,496
Total	189.99	189.99	189.99	482,496	482,496

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0208	0.1890	0.1588	1.1300e-003		0.0144	0.0144		0.0144	0.0144		226.8261	226.8261	4.3500e-003	4.1600e-003	228.2065
NaturalGas Unmitigated	0.0208	0.1890	0.1588	1.1300e-003		0.0144	0.0144		0.0144	0.0144		226.8261	226.8261	4.3500e-003	4.1600e-003	228.2065

### 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					
Junior College (2Yr)	1928.02	0.0208	0.1890	0.1588	1.1300e-003		0.0144	0.0144		0.0144	0.0144		226.8261	226.8261	4.3500e-003	4.1600e-003	228.2065
<b>Total</b>		<b>0.0208</b>	<b>0.1890</b>	<b>0.1588</b>	<b>1.1300e-003</b>		<b>0.0144</b>	<b>0.0144</b>		<b>0.0144</b>	<b>0.0144</b>		<b>226.8261</b>	<b>226.8261</b>	<b>4.3500e-003</b>	<b>4.1600e-003</b>	<b>228.2065</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					
Junior College (2Yr)	1.92802	0.0208	0.1890	0.1588	1.1300e-003		0.0144	0.0144		0.0144	0.0144		226.8261	226.8261	4.3500e-003	4.1600e-003	228.2065
<b>Total</b>		<b>0.0208</b>	<b>0.1890</b>	<b>0.1588</b>	<b>1.1300e-003</b>		<b>0.0144</b>	<b>0.0144</b>		<b>0.0144</b>	<b>0.0144</b>		<b>226.8261</b>	<b>226.8261</b>	<b>4.3500e-003</b>	<b>4.1600e-003</b>	<b>228.2065</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	0.7197	4.0000e-005	3.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6700e-003	5.6700e-003	3.0000e-005		6.2300e-003
Unmitigated	0.7197	4.0000e-005	3.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6700e-003	5.6700e-003	3.0000e-005		6.2300e-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	0.1646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5547					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4000e-004	4.0000e-005	3.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6700e-003	5.6700e-003	3.0000e-005		6.2300e-003
<b>Total</b>	<b>0.7197</b>	<b>4.0000e-005</b>	<b>3.3700e-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>5.6700e-003</b>	<b>5.6700e-003</b>	<b>3.0000e-005</b>		<b>6.2300e-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	0.1646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5547					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4000e-004	4.0000e-005	3.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.6700e-003	5.6700e-003	3.0000e-005		6.2300e-003
<b>Total</b>	<b>0.7197</b>	<b>4.0000e-005</b>	<b>3.3700e-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>5.6700e-003</b>	<b>5.6700e-003</b>	<b>3.0000e-005</b>		<b>6.2300e-003</b>

### 7.0 Water Detail

## 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**AAU Existing Site 34**  
**San Francisco County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	113.44	1000sqft	2.60	113,436.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.405 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2005
tblVehicleTrips	ST_TR	11.23	7.41
tblVehicleTrips	SU_TR	1.21	7.41
tblVehicleTrips	WD_TR	27.49	7.41

## 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	lb/day										lb/day					
Area	3.1497	1.8000e-004	0.0147	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0248	0.0248	1.2000e-004		0.0273
Energy	0.0910	0.8272	0.6949	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6793	992.6793	0.0190	0.0182	998.7205
Mobile	8.0138	15.0390	83.7573	0.1421	4.1080	0.3286	4.4366	1.1848	0.3286	1.5135		7,356.0925	7,356.0925	0.7088		7,370.9782
<b>Total</b>	<b>11.2545</b>	<b>15.8664</b>	<b>84.4669</b>	<b>0.1471</b>	<b>4.1080</b>	<b>0.3916</b>	<b>4.4996</b>	<b>1.1848</b>	<b>0.3916</b>	<b>1.5764</b>		<b>8,348.7966</b>	<b>8,348.7966</b>	<b>0.7280</b>	<b>0.0182</b>	<b>8,369.7260</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	3.1497	1.8000e-004	0.0147	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0248	0.0248	1.2000e-004		0.0273
Energy	0.0910	0.8272	0.6949	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6793	992.6793	0.0190	0.0182	998.7205
Mobile	8.0138	15.0390	83.7573	0.1421	4.1080	0.3286	4.4366	1.1848	0.3286	1.5135		7,356.0925	7,356.0925	0.7088		7,370.9782
<b>Total</b>	<b>11.2545</b>	<b>15.8664</b>	<b>84.4669</b>	<b>0.1471</b>	<b>4.1080</b>	<b>0.3916</b>	<b>4.4996</b>	<b>1.1848</b>	<b>0.3916</b>	<b>1.5764</b>		<b>8,348.7966</b>	<b>8,348.7966</b>	<b>0.7280</b>	<b>0.0182</b>	<b>8,369.7260</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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/2/2016	5	3	
3	Grading	Grading	2/3/2016	2/10/2016	5	6	
4	Building Construction	Building Construction	2/11/2016	12/14/2016	5	220	
5	Paving	Paving	12/15/2016	12/28/2016	5	10	
6	Architectural Coating	Architectural Coating	12/29/2016	1/11/2017	5	10	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 170,154; Non-Residential Outdoor: 56,718 (Architectural Coating – sqft)**

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	48.00	19.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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	lb/day										lb/day					
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328		2,487.1296	2,487.1296	0.6288		2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>		<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>		<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003			137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>			<b>137.5847</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328	0.0000	2,487.1296	2,487.1296	0.6288			2,500.3343
<b>Total</b>	<b>2.9066</b>	<b>28.2579</b>	<b>21.4980</b>	<b>0.0245</b>		<b>1.7445</b>	<b>1.7445</b>		<b>1.6328</b>	<b>1.6328</b>	<b>0.0000</b>	<b>2,487.1296</b>	<b>2,487.1296</b>	<b>0.6288</b>			<b>2,500.3343</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	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	0.0483	0.0560	0.6748	1.6400e-003	0.1226	1.0800e-003	0.1237	0.0325	9.9000e-004	0.0335		137.4405	137.4405	6.8600e-003		137.5847
<b>Total</b>	<b>0.0483</b>	<b>0.0560</b>	<b>0.6748</b>	<b>1.6400e-003</b>	<b>0.1226</b>	<b>1.0800e-003</b>	<b>0.1237</b>	<b>0.0325</b>	<b>9.9000e-004</b>	<b>0.0335</b>		<b>137.4405</b>	<b>137.4405</b>	<b>6.8600e-003</b>		<b>137.5847</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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.6992	30.8238	18.0600	0.0239		1.5116	1.5116		1.3907	1.3907		2,480.1000	2,480.1000	0.7481		2,495.8099
<b>Total</b>	<b>2.6992</b>	<b>30.8238</b>	<b>18.0600</b>	<b>0.0239</b>	<b>1.5908</b>	<b>1.5116</b>	<b>3.1024</b>	<b>0.1718</b>	<b>1.3907</b>	<b>1.5625</b>		<b>2,480.1000</b>	<b>2,480.1000</b>	<b>0.7481</b>		<b>2,495.8099</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003		84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>		<b>84.6675</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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.6992	30.8238	18.0600	0.0239		1.5116	1.5116		1.3907	1.3907	0.0000	2,480.1000	2,480.1000	0.7481		2,495.8099
<b>Total</b>	<b>2.6992</b>	<b>30.8238</b>	<b>18.0600</b>	<b>0.0239</b>	<b>1.5908</b>	<b>1.5116</b>	<b>3.1024</b>	<b>0.1718</b>	<b>1.3907</b>	<b>1.5625</b>	<b>0.0000</b>	<b>2,480.1000</b>	<b>2,480.1000</b>	<b>0.7481</b>		<b>2,495.8099</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	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	0.0297	0.0345	0.4153	1.0100e-003	0.0754	6.6000e-004	0.0761	0.0200	6.1000e-004	0.0206		84.5788	84.5788	4.2200e-003			84.6675
<b>Total</b>	<b>0.0297</b>	<b>0.0345</b>	<b>0.4153</b>	<b>1.0100e-003</b>	<b>0.0754</b>	<b>6.6000e-004</b>	<b>0.0761</b>	<b>0.0200</b>	<b>6.1000e-004</b>	<b>0.0206</b>		<b>84.5788</b>	<b>84.5788</b>	<b>4.2200e-003</b>			<b>84.6675</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	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.8530	29.9470	19.6345	0.0206		1.6671	1.6671		1.5337	1.5337		2,139.274 2	2,139.274 2	0.6453		2,152.825 1
<b>Total</b>	<b>2.8530</b>	<b>29.9470</b>	<b>19.6345</b>	<b>0.0206</b>	<b>6.5523</b>	<b>1.6671</b>	<b>8.2195</b>	<b>3.3675</b>	<b>1.5337</b>	<b>4.9012</b>		<b>2,139.274 2</b>	<b>2,139.274 2</b>	<b>0.6453</b>		<b>2,152.825 1</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	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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003			105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>			<b>105.8344</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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000	
Off-Road	2.8530	29.9470	19.6345	0.0206		1.6671	1.6671		1.5337	1.5337	0.0000	2,139.274 2	2,139.274 2	0.6453			2,152.825 1
<b>Total</b>	<b>2.8530</b>	<b>29.9470</b>	<b>19.6345</b>	<b>0.0206</b>	<b>6.5523</b>	<b>1.6671</b>	<b>8.2195</b>	<b>3.3675</b>	<b>1.5337</b>	<b>4.9012</b>	<b>0.0000</b>	<b>2,139.274 2</b>	<b>2,139.274 2</b>	<b>0.6453</b>			<b>2,152.825 1</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	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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003			105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>			<b>105.8344</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	lb/day										lb/day						
Off-Road	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569		2,352.2239	2,352.2239	0.5420			2,363.6057
<b>Total</b>	<b>3.6984</b>	<b>24.6320</b>	<b>16.7166</b>	<b>0.0249</b>		<b>1.6257</b>	<b>1.6257</b>		<b>1.5569</b>	<b>1.5569</b>		<b>2,352.2239</b>	<b>2,352.2239</b>	<b>0.5420</b>			<b>2,363.6057</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	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	0.2388	1.8014	2.8777	4.3700e-003	0.1255	0.0269	0.1524	0.0358	0.0247	0.0605		436.6351	436.6351	3.4100e-003			436.7068
Worker	0.1785	0.2068	2.4917	6.0400e-003	0.4527	3.9900e-003	0.4566	0.1201	3.6700e-003	0.1237		507.4726	507.4726	0.0254			508.0049
<b>Total</b>	<b>0.4173</b>	<b>2.0082</b>	<b>5.3694</b>	<b>0.0104</b>	<b>0.5781</b>	<b>0.0309</b>	<b>0.6090</b>	<b>0.1558</b>	<b>0.0284</b>	<b>0.1842</b>		<b>944.1077</b>	<b>944.1077</b>	<b>0.0288</b>			<b>944.7117</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	3.6984	24.6320	16.7166	0.0249		1.6257	1.6257		1.5569	1.5569	0.0000	2,352.2239	2,352.2239	0.5420			2,363.6057
<b>Total</b>	<b>3.6984</b>	<b>24.6320</b>	<b>16.7166</b>	<b>0.0249</b>		<b>1.6257</b>	<b>1.6257</b>		<b>1.5569</b>	<b>1.5569</b>	<b>0.0000</b>	<b>2,352.2239</b>	<b>2,352.2239</b>	<b>0.5420</b>			<b>2,363.6057</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	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	0.2388	1.8014	2.8777	4.3700e-003	0.1255	0.0269	0.1524	0.0358	0.0247	0.0605		436.6351	436.6351	3.4100e-003			436.7068
Worker	0.1785	0.2068	2.4917	6.0400e-003	0.4527	3.9900e-003	0.4566	0.1201	3.6700e-003	0.1237		507.4726	507.4726	0.0254			508.0049
<b>Total</b>	<b>0.4173</b>	<b>2.0082</b>	<b>5.3694</b>	<b>0.0104</b>	<b>0.5781</b>	<b>0.0309</b>	<b>0.6090</b>	<b>0.1558</b>	<b>0.0284</b>	<b>0.1842</b>		<b>944.1077</b>	<b>944.1077</b>	<b>0.0288</b>			<b>944.7117</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	lb/day										lb/day						
Off-Road	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363		1,804.8600	1,804.8600	0.5344			1,816.0828
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.7811</b>	<b>17.9300</b>	<b>12.1433</b>	<b>0.0176</b>		<b>1.1252</b>	<b>1.1252</b>		<b>1.0363</b>	<b>1.0363</b>		<b>1,804.8600</b>	<b>1,804.8600</b>	<b>0.5344</b>			<b>1,816.0828</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003		158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>		<b>158.7515</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	1.7811	17.9300	12.1433	0.0176		1.1252	1.1252		1.0363	1.0363	0.0000	1,804.8600	1,804.8600	0.5344		1,816.0828
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7811</b>	<b>17.9300</b>	<b>12.1433</b>	<b>0.0176</b>		<b>1.1252</b>	<b>1.1252</b>		<b>1.0363</b>	<b>1.0363</b>	<b>0.0000</b>	<b>1,804.8600</b>	<b>1,804.8600</b>	<b>0.5344</b>		<b>1,816.0828</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	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	0.0558	0.0646	0.7787	1.8900e-003	0.1415	1.2500e-003	0.1427	0.0375	1.1500e-003	0.0387		158.5852	158.5852	7.9200e-003		158.7515
<b>Total</b>	<b>0.0558</b>	<b>0.0646</b>	<b>0.7787</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2500e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1500e-003</b>	<b>0.0387</b>		<b>158.5852</b>	<b>158.5852</b>	<b>7.9200e-003</b>		<b>158.7515</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	lb/day										lb/day					
Archit. Coating	262.8879					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
<b>Total</b>	<b>263.2564</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</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	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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003			105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>			<b>105.8344</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						
Archit. Coating	262.8879					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966	0.0000	281.4481	281.4481	0.0332			282.1449
<b>Total</b>	<b>263.2564</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0332</b>			<b>282.1449</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	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	0.0372	0.0431	0.5191	1.2600e-003	0.0943	8.3000e-004	0.0951	0.0250	7.7000e-004	0.0258		105.7235	105.7235	5.2800e-003			105.8344
<b>Total</b>	<b>0.0372</b>	<b>0.0431</b>	<b>0.5191</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.3000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.7000e-004</b>	<b>0.0258</b>		<b>105.7235</b>	<b>105.7235</b>	<b>5.2800e-003</b>			<b>105.8344</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	262.8879					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
<b>Total</b>	<b>263.2202</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>			<b>282.0721</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0338	0.0390	0.4712	1.2600e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		101.6849	101.6849	4.8800e-003			101.7875
<b>Total</b>	<b>0.0338</b>	<b>0.0390</b>	<b>0.4712</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.0000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.4000e-004</b>	<b>0.0258</b>		<b>101.6849</b>	<b>101.6849</b>	<b>4.8800e-003</b>			<b>101.7875</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						
Archit. Coating	262.8879					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721
<b>Total</b>	<b>263.2202</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>			<b>282.0721</b>

### 3.7 Architectural Coating - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0338	0.0390	0.4712	1.2600e-003	0.0943	8.0000e-004	0.0951	0.0250	7.4000e-004	0.0258		101.6849	101.6849	4.8800e-003			101.7875
<b>Total</b>	<b>0.0338</b>	<b>0.0390</b>	<b>0.4712</b>	<b>1.2600e-003</b>	<b>0.0943</b>	<b>8.0000e-004</b>	<b>0.0951</b>	<b>0.0250</b>	<b>7.4000e-004</b>	<b>0.0258</b>		<b>101.6849</b>	<b>101.6849</b>	<b>4.8800e-003</b>			<b>101.7875</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	8.0138	15.0390	83.7573	0.1421	4.1080	0.3286	4.4366	1.1848	0.3286	1.5135		7,356.0925	7,356.0925	0.7088		7,370.9782
Unmitigated	8.0138	15.0390	83.7573	0.1421	4.1080	0.3286	4.4366	1.1848	0.3286	1.5135		7,356.0925	7,356.0925	0.7088		7,370.9782

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	839.99	839.99	839.99	2,133,195	2,133,195
<b>Total</b>	<b>839.99</b>	<b>839.99</b>	<b>839.99</b>	<b>2,133,195</b>	<b>2,133,195</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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 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	0.0910	0.8272	0.6949	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6793	992.6793	0.0190	0.0182	998.7205
NaturalGas Unmitigated	0.0910	0.8272	0.6949	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6793	992.6793	0.0190	0.0182	998.7205



### 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					
Junior College (2Yr)	8437.77	0.0910	0.8272	0.6949	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6793	992.6793	0.0190	0.0182	998.7205
<b>Total</b>		<b>0.0910</b>	<b>0.8272</b>	<b>0.6949</b>	<b>4.9600e-003</b>		<b>0.0629</b>	<b>0.0629</b>		<b>0.0629</b>	<b>0.0629</b>		<b>992.6793</b>	<b>992.6793</b>	<b>0.0190</b>	<b>0.0182</b>	<b>998.7205</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					
Junior College (2Yr)	8.43777	0.0910	0.8272	0.6949	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6793	992.6793	0.0190	0.0182	998.7205
<b>Total</b>		<b>0.0910</b>	<b>0.8272</b>	<b>0.6949</b>	<b>4.9600e-003</b>		<b>0.0629</b>	<b>0.0629</b>		<b>0.0629</b>	<b>0.0629</b>		<b>992.6793</b>	<b>992.6793</b>	<b>0.0190</b>	<b>0.0182</b>	<b>998.7205</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	3.1497	1.8000e-004	0.0147	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0248	0.0248	1.2000e-004			0.0273
Unmitigated	3.1497	1.8000e-004	0.0147	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0248	0.0248	1.2000e-004			0.0273

## 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	0.7202					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	2.4275					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	1.9100e-003	1.8000e-004	0.0147	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0248	0.0248	1.2000e-004			0.0273
<b>Total</b>	<b>3.1497</b>	<b>1.8000e-004</b>	<b>0.0147</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0248</b>	<b>0.0248</b>	<b>1.2000e-004</b>			<b>0.0273</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	lb/day										lb/day					
Consumer Products	2.4275					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9100e-003	1.8000e-004	0.0147	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0248	0.0248	1.2000e-004		0.0273
Architectural Coating	0.7202					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>3.1497</b>	<b>1.8000e-004</b>	<b>0.0147</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0248</b>	<b>0.0248</b>	<b>1.2000e-004</b>		<b>0.0273</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
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## 10.0 Vegetation

**3. CalEEMod Operational Outputs– Annual (tons per year)**

**AAU Existing Site 1**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	44.53	1000sqft	1.02	44,530.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study, there are 7.41 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	1990
tblVehicleTrips	ST_TR	11.23	7.41
tblVehicleTrips	SU_TR	1.21	7.41
tblVehicleTrips	WD_TR	27.49	7.41

## 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	0.2257	0.0000	1.3400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	2.0000e-005	0.0000	1.1100e-003
Energy	6.5200e-003	0.0593	0.0498	3.6000e-004		4.5000e-003	4.5000e-003		4.5000e-003	4.5000e-003	0.0000	198.0750	198.0750	7.2800e-003	2.4300e-003	198.9818
Mobile	2.0976	2.6991	24.5713	0.1817	0.2816	0.0316	0.3132	0.0818	0.0316	0.1133	0.0000	439.9402	439.9402	0.1410	0.0000	442.9013
Waste						0.0000	0.0000		0.0000	0.0000	11.7512	0.0000	11.7512	0.6945	0.0000	26.3351
Water						0.0000	0.0000		0.0000	0.0000	0.6929	6.9165	7.6094	0.0715	1.7500e-003	9.6516
<b>Total</b>	<b>2.3298</b>	<b>2.7584</b>	<b>24.6225</b>	<b>0.1821</b>	<b>0.2816</b>	<b>0.0361</b>	<b>0.3177</b>	<b>0.0818</b>	<b>0.0361</b>	<b>0.1178</b>	<b>12.4441</b>	<b>644.9325</b>	<b>657.3766</b>	<b>0.9143</b>	<b>4.1800e-003</b>	<b>677.8709</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	0.2257	0.0000	1.3400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	2.0000e-005	0.0000	1.1100e-003
Energy	6.5200e-003	0.0593	0.0498	3.6000e-004		4.5000e-003	4.5000e-003		4.5000e-003	4.5000e-003	0.0000	198.0750	198.0750	7.2800e-003	2.4300e-003	198.9818
Mobile	2.0976	2.6991	24.5713	0.1817	0.2816	0.0316	0.3132	0.0818	0.0316	0.1133	0.0000	439.9402	439.9402	0.1410	0.0000	442.9013
Waste						0.0000	0.0000		0.0000	0.0000	11.7512	0.0000	11.7512	0.6945	0.0000	26.3351
Water						0.0000	0.0000		0.0000	0.0000	0.6929	6.9165	7.6094	0.0715	1.7400e-003	9.6505
<b>Total</b>	<b>2.3298</b>	<b>2.7584</b>	<b>24.6225</b>	<b>0.1821</b>	<b>0.2816</b>	<b>0.0361</b>	<b>0.3177</b>	<b>0.0818</b>	<b>0.0361</b>	<b>0.1178</b>	<b>12.4441</b>	<b>644.9325</b>	<b>657.3766</b>	<b>0.9142</b>	<b>4.1700e-003</b>	<b>677.8698</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>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>0.24</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	1/1/2016	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/1/2016	5	2	
3	Grading	Grading	2/2/2016	2/5/2016	5	4	
4	Building Construction	Building Construction	2/6/2016	11/11/2016	5	200	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

**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: 66,795; Non-Residential Outdoor: 22,265 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	19.00	7.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5629</b>	<b>22.5629</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6827</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5628</b>	<b>22.5628</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6826</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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	4.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0723	0.0723	0.0000	0.0000	0.0724
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0723</b>	<b>0.0723</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0724</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-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

#### 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	4.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0723	0.0723	0.0000	0.0000	0.0724
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0723</b>	<b>0.0723</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0724</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					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710
<b>Total</b>	<b>3.9800e-003</b>	<b>0.0421</b>	<b>0.0273</b>	<b>3.0000e-005</b>	<b>9.8300e-003</b>	<b>2.2800e-003</b>	<b>0.0121</b>	<b>5.0500e-003</b>	<b>2.1000e-003</b>	<b>7.1500e-003</b>	<b>0.0000</b>	<b>2.6541</b>	<b>2.6541</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.6710</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	8.0000e-005	7.9000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1447	0.1447	1.0000e-005	0.0000	0.1448
<b>Total</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1447</b>	<b>0.1447</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1448</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					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710
<b>Total</b>	<b>3.9800e-003</b>	<b>0.0421</b>	<b>0.0273</b>	<b>3.0000e-005</b>	<b>9.8300e-003</b>	<b>2.2800e-003</b>	<b>0.0121</b>	<b>5.0500e-003</b>	<b>2.1000e-003</b>	<b>7.1500e-003</b>	<b>0.0000</b>	<b>2.6541</b>	<b>2.6541</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.6710</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	8.0000e-005	7.9000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1447	0.1447	1.0000e-005	0.0000	0.1448
<b>Total</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1447</b>	<b>0.1447</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1448</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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6956	185.6956	0.0408	0.0000	186.5527
<b>Total</b>	<b>0.3292</b>	<b>2.0546</b>	<b>1.4707</b>	<b>2.2000e-003</b>		<b>0.1366</b>	<b>0.1366</b>		<b>0.1318</b>	<b>0.1318</b>	<b>0.0000</b>	<b>185.6956</b>	<b>185.6956</b>	<b>0.0408</b>	<b>0.0000</b>	<b>186.5527</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
Vendor	0.0101	0.0691	0.1288	1.6000e-004	4.4700e-003	1.0000e-003	5.4700e-003	1.2800e-003	9.1000e-004	2.2000e-003	0.0000	14.5447	14.5447	1.2000e-004	0.0000	14.5471
Worker	6.8500e-003	9.4000e-003	0.0942	2.3000e-004	0.0172	1.6000e-004	0.0174	4.5800e-003	1.5000e-004	4.7300e-003	0.0000	17.1773	17.1773	9.1000e-004	0.0000	17.1964
<b>Total</b>	<b>0.0169</b>	<b>0.0785</b>	<b>0.2230</b>	<b>3.9000e-004</b>	<b>0.0217</b>	<b>1.1600e-003</b>	<b>0.0229</b>	<b>5.8600e-003</b>	<b>1.0600e-003</b>	<b>6.9300e-003</b>	<b>0.0000</b>	<b>31.7220</b>	<b>31.7220</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>31.7435</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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6954	185.6954	0.0408	0.0000	186.5525
<b>Total</b>	<b>0.3292</b>	<b>2.0546</b>	<b>1.4707</b>	<b>2.2000e-003</b>		<b>0.1366</b>	<b>0.1366</b>		<b>0.1318</b>	<b>0.1318</b>	<b>0.0000</b>	<b>185.6954</b>	<b>185.6954</b>	<b>0.0408</b>	<b>0.0000</b>	<b>186.5525</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	0.0101	0.0691	0.1288	1.6000e-004	4.4700e-003	1.0000e-003	5.4700e-003	1.2800e-003	9.1000e-004	2.2000e-003	0.0000	14.5447	14.5447	1.2000e-004	0.0000	14.5471
Worker	6.8500e-003	9.4000e-003	0.0942	2.3000e-004	0.0172	1.6000e-004	0.0174	4.5800e-003	1.5000e-004	4.7300e-003	0.0000	17.1773	17.1773	9.1000e-004	0.0000	17.1964
<b>Total</b>	<b>0.0169</b>	<b>0.0785</b>	<b>0.2230</b>	<b>3.9000e-004</b>	<b>0.0217</b>	<b>1.1600e-003</b>	<b>0.0229</b>	<b>5.8600e-003</b>	<b>1.0600e-003</b>	<b>6.9300e-003</b>	<b>0.0000</b>	<b>31.7220</b>	<b>31.7220</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>31.7435</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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.4400e-003</b>	<b>0.0660</b>	<b>0.0454</b>	<b>7.0000e-005</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>6.2071</b>	<b>6.2071</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>6.2457</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	2.3000e-004	3.2000e-004	3.2200e-003	1.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5876	0.5876	3.0000e-005	0.0000	0.5883
<b>Total</b>	<b>2.3000e-004</b>	<b>3.2000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5876</b>	<b>0.5876</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5883</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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.4400e-003</b>	<b>0.0660</b>	<b>0.0454</b>	<b>7.0000e-005</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>6.2071</b>	<b>6.2071</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>6.2457</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	2.3000e-004	3.2000e-004	3.2200e-003	1.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5876	0.5876	3.0000e-005	0.0000	0.5883
<b>Total</b>	<b>2.3000e-004</b>	<b>3.2000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5876</b>	<b>0.5876</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5883</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	0.5160					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
<b>Total</b>	<b>0.5178</b>	<b>0.0119</b>	<b>9.4200e-003</b>	<b>1.0000e-005</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.2798</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
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	7.0000e-005	1.0000e-004	9.9000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1808	0.1808	1.0000e-005	0.0000	0.1810
<b>Total</b>	<b>7.0000e-005</b>	<b>1.0000e-004</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1808</b>	<b>0.1808</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1810</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	0.5160					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
<b>Total</b>	<b>0.5178</b>	<b>0.0119</b>	<b>9.4200e-003</b>	<b>1.0000e-005</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.2798</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	7.0000e-005	1.0000e-004	9.9000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1808	0.1808	1.0000e-005	0.0000	0.1810
<b>Total</b>	<b>7.0000e-005</b>	<b>1.0000e-004</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1808</b>	<b>0.1808</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1810</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	2.0976	2.6991	24.5713	0.1817	0.2816	0.0316	0.3132	0.0818	0.0316	0.1133	0.0000	439.9402	439.9402	0.1410	0.0000	442.9013
Unmitigated	2.0976	2.6991	24.5713	0.1817	0.2816	0.0316	0.3132	0.0818	0.0316	0.1133	0.0000	439.9402	439.9402	0.1410	0.0000	442.9013



**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	329.97	329.97	329.97	837,964	837,964
Total	329.97	329.97	329.97	837,964	837,964

**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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

**5.0 Energy Detail**

**5.1 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	133.5587	133.5587	6.0400e-003	1.2500e-003	134.0729
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	133.5587	133.5587	6.0400e-003	1.2500e-003	134.0729
NaturalGas Mitigated	6.5200e-003	0.0593	0.0498	3.6000e-004		4.5000e-003	4.5000e-003		4.5000e-003	4.5000e-003	0.0000	64.5163	64.5163	1.2400e-003	1.1800e-003	64.9089
NaturalGas Unmitigated	6.5200e-003	0.0593	0.0498	3.6000e-004		4.5000e-003	4.5000e-003		4.5000e-003	4.5000e-003	0.0000	64.5163	64.5163	1.2400e-003	1.1800e-003	64.9089

**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					
Junior College (2Yr)	1.20899e+006	6.5200e-003	0.0593	0.0498	3.6000e-004		4.5000e-003	4.5000e-003		4.5000e-003	4.5000e-003	0.0000	64.5163	64.5163	1.2400e-003	1.1800e-003	64.9089
<b>Total</b>		<b>6.5200e-003</b>	<b>0.0593</b>	<b>0.0498</b>	<b>3.6000e-004</b>		<b>4.5000e-003</b>	<b>4.5000e-003</b>		<b>4.5000e-003</b>	<b>4.5000e-003</b>	<b>0.0000</b>	<b>64.5163</b>	<b>64.5163</b>	<b>1.2400e-003</b>	<b>1.1800e-003</b>	<b>64.9089</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					
Junior College (2Yr)	1.20899e+006	6.5200e-003	0.0593	0.0498	3.6000e-004		4.5000e-003	4.5000e-003		4.5000e-003	4.5000e-003	0.0000	64.5163	64.5163	1.2400e-003	1.1800e-003	64.9089
<b>Total</b>		<b>6.5200e-003</b>	<b>0.0593</b>	<b>0.0498</b>	<b>3.6000e-004</b>		<b>4.5000e-003</b>	<b>4.5000e-003</b>		<b>4.5000e-003</b>	<b>4.5000e-003</b>	<b>0.0000</b>	<b>64.5163</b>	<b>64.5163</b>	<b>1.2400e-003</b>	<b>1.1800e-003</b>	<b>64.9089</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	459104	133.5587	6.0400e-003	1.2500e-003	134.0729
<b>Total</b>		<b>133.5587</b>	<b>6.0400e-003</b>	<b>1.2500e-003</b>	<b>134.0729</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	459104	133.5587	6.0400e-003	1.2500e-003	134.0729
<b>Total</b>		<b>133.5587</b>	<b>6.0400e-003</b>	<b>1.2500e-003</b>	<b>134.0729</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	0.2257	0.0000	1.3400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	2.0000e-005	0.0000	1.1100e-003
Unmitigated	0.2257	0.0000	1.3400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	2.0000e-005	0.0000	1.1100e-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	0.0516					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1739					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	0.0000	1.3400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	2.0000e-005	0.0000	1.1100e-003
<b>Total</b>	<b>0.2257</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.1100e-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	0.0516					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1739					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	0.0000	1.3400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-004	8.0000e-004	2.0000e-005	0.0000	1.1100e-003
<b>Total</b>	<b>0.2257</b>	<b>0.0000</b>	<b>1.3400e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.1100e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7.6094	0.0715	1.7400e-003	9.6505
Unmitigated	7.6094	0.0715	1.7500e-003	9.6516

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	2.18415 / 3.41624	7.6094	0.0715	1.7500e-003	9.6516
<b>Total</b>		<b>7.6094</b>	<b>0.0715</b>	<b>1.7500e-003</b>	<b>9.6516</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	2.18415 / 3.41624	7.6094	0.0715	1.7400e-003	9.6505
<b>Total</b>		<b>7.6094</b>	<b>0.0715</b>	<b>1.7400e-003</b>	<b>9.6505</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.7512	0.6945	0.0000	26.3351
Unmitigated	11.7512	0.6945	0.0000	26.3351

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	57.89	11.7512	0.6945	0.0000	26.3351
<b>Total</b>		<b>11.7512</b>	<b>0.6945</b>	<b>0.0000</b>	<b>26.3351</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	57.89	11.7512	0.6945	0.0000	26.3351
<b>Total</b>		<b>11.7512</b>	<b>0.6945</b>	<b>0.0000</b>	<b>26.3351</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 2**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	20.00	1000sqft	0.46	20,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2000
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.5 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2000
tblVehicleTrips	ST_TR	11.23	7.50
tblVehicleTrips	SU_TR	1.21	7.50
tblVehicleTrips	WD_TR	27.49	7.50

## 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	0.1013	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	4.1000e-004
Energy	2.9300e-003	0.0266	0.0224	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	88.9625	88.9625	3.2700e-003	1.0900e-003	89.3698
Mobile	0.4366	0.7693	4.7631	5.4600e-003	0.1280	0.0113	0.1393	0.0372	0.0113	0.0485	0.0000	205.1287	205.1287	0.0344	0.0000	205.8508
Waste						0.0000	0.0000		0.0000	0.0000	5.2778	0.0000	5.2778	0.3119	0.0000	11.8278
Water						0.0000	0.0000		0.0000	0.0000	0.3112	3.1065	3.4177	0.0321	7.8000e-004	4.3349
<b>Total</b>	<b>0.5409</b>	<b>0.7959</b>	<b>4.7858</b>	<b>5.6200e-003</b>	<b>0.1280</b>	<b>0.0133</b>	<b>0.1413</b>	<b>0.0372</b>	<b>0.0133</b>	<b>0.0505</b>	<b>5.5890</b>	<b>297.1980</b>	<b>302.7870</b>	<b>0.3817</b>	<b>1.8700e-003</b>	<b>311.3837</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	0.1013	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	4.1000e-004
Energy	2.9300e-003	0.0266	0.0224	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	88.9625	88.9625	3.2700e-003	1.0900e-003	89.3698
Mobile	0.4366	0.7693	4.7631	5.4600e-003	0.1280	0.0113	0.1393	0.0372	0.0113	0.0485	0.0000	205.1287	205.1287	0.0344	0.0000	205.8508
Waste						0.0000	0.0000		0.0000	0.0000	5.2778	0.0000	5.2778	0.3119	0.0000	11.8278
Water						0.0000	0.0000		0.0000	0.0000	0.3112	3.1065	3.4177	0.0321	7.8000e-004	4.3344
<b>Total</b>	<b>0.5409</b>	<b>0.7959</b>	<b>4.7858</b>	<b>5.6200e-003</b>	<b>0.1280</b>	<b>0.0133</b>	<b>0.1413</b>	<b>0.0372</b>	<b>0.0133</b>	<b>0.0505</b>	<b>5.5890</b>	<b>297.1980</b>	<b>302.7870</b>	<b>0.3817</b>	<b>1.8700e-003</b>	<b>311.3832</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>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>	<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	1/1/2016	1/14/2016	5	10	
2	Site Preparation	Site Preparation	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 30,000; Non-Residential Outdoor: 10,000 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	8.00	3.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT



### 3.1 Mitigation Measures Construction

### 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					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>

### 3.2 Demolition - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>

### 3.3 Site Preparation - 2016

#### 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.4 Grading - 2016

#### 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4584</b>	<b>53.4584</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7970</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.1500e-003	0.0148	0.0276	3.0000e-005	9.6000e-004	2.1000e-004	1.1700e-003	2.7000e-004	2.0000e-004	4.7000e-004	0.0000	3.1167	3.1167	2.0000e-005	0.0000	3.1172
Worker	1.4400e-003	1.9800e-003	0.0198	5.0000e-005	3.6300e-003	3.0000e-005	3.6600e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	3.6163	3.6163	1.9000e-004	0.0000	3.6203
<b>Total</b>	<b>3.5900e-003</b>	<b>0.0168</b>	<b>0.0474</b>	<b>8.0000e-005</b>	<b>4.5900e-003</b>	<b>2.4000e-004</b>	<b>4.8300e-003</b>	<b>1.2400e-003</b>	<b>2.3000e-004</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>6.7330</b>	<b>6.7330</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>6.7375</b>

### 3.5 Building Construction - 2016

#### 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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4583</b>	<b>53.4583</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7969</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.1500e-003	0.0148	0.0276	3.0000e-005	9.6000e-004	2.1000e-004	1.1700e-003	2.7000e-004	2.0000e-004	4.7000e-004	0.0000	3.1167	3.1167	2.0000e-005	0.0000	3.1172
Worker	1.4400e-003	1.9800e-003	0.0198	5.0000e-005	3.6300e-003	3.0000e-005	3.6600e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	3.6163	3.6163	1.9000e-004	0.0000	3.6203
<b>Total</b>	<b>3.5900e-003</b>	<b>0.0168</b>	<b>0.0474</b>	<b>8.0000e-005</b>	<b>4.5900e-003</b>	<b>2.4000e-004</b>	<b>4.8300e-003</b>	<b>1.2400e-003</b>	<b>2.3000e-004</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>6.7330</b>	<b>6.7330</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>6.7375</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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>

### 3.6 Paving - 2016

#### 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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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	0.2318					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>0.2327</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</b>

### 3.7 Architectural Coating - 2016

#### 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	0.2318					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>0.2327</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</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	0.4366	0.7693	4.7631	5.4600e-003	0.1280	0.0113	0.1393	0.0372	0.0113	0.0485	0.0000	205.1287	205.1287	0.0344	0.0000	205.8508
Unmitigated	0.4366	0.7693	4.7631	5.4600e-003	0.1280	0.0113	0.1393	0.0372	0.0113	0.0485	0.0000	205.1287	205.1287	0.0344	0.0000	205.8508

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	150.00	150.00	150.00	380,931	380,931
Total	150.00	150.00	150.00	380,931	380,931

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.630142	0.126516	0.135380	0.044811	0.004048	0.008281	0.028653	0.003029	0.001699	0.010368	0.005318	0.000926	0.000829

### 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	59.9859	59.9859	2.7100e-003	5.6000e-004	60.2169
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.9859	59.9859	2.7100e-003	5.6000e-004	60.2169
NaturalGas Mitigated	2.9300e-003	0.0266	0.0224	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	28.9766	28.9766	5.6000e-004	5.3000e-004	29.1529
NaturalGas Unmitigated	2.9300e-003	0.0266	0.0224	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	28.9766	28.9766	5.6000e-004	5.3000e-004	29.1529

### 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					
Junior College (2Yr)	543000	2.9300e-003	0.0266	0.0224	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	28.9766	28.9766	5.6000e-004	5.3000e-004	29.1529
<b>Total</b>		<b>2.9300e-003</b>	<b>0.0266</b>	<b>0.0224</b>	<b>1.6000e-004</b>		<b>2.0200e-003</b>	<b>2.0200e-003</b>		<b>2.0200e-003</b>	<b>2.0200e-003</b>	<b>0.0000</b>	<b>28.9766</b>	<b>28.9766</b>	<b>5.6000e-004</b>	<b>5.3000e-004</b>	<b>29.1529</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					
Junior College (2Yr)	543000	2.9300e-003	0.0266	0.0224	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	28.9766	28.9766	5.6000e-004	5.3000e-004	29.1529
<b>Total</b>		<b>2.9300e-003</b>	<b>0.0266</b>	<b>0.0224</b>	<b>1.6000e-004</b>		<b>2.0200e-003</b>	<b>2.0200e-003</b>		<b>2.0200e-003</b>	<b>2.0200e-003</b>	<b>0.0000</b>	<b>28.9766</b>	<b>28.9766</b>	<b>5.6000e-004</b>	<b>5.3000e-004</b>	<b>29.1529</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	206200	59.9859	2.7100e-003	5.6000e-004	60.2169
<b>Total</b>		<b>59.9859</b>	<b>2.7100e-003</b>	<b>5.6000e-004</b>	<b>60.2169</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	206200	59.9859	2.7100e-003	5.6000e-004	60.2169
<b>Total</b>		<b>59.9859</b>	<b>2.7100e-003</b>	<b>5.6000e-004</b>	<b>60.2169</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	0.1013	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	4.1000e-004
Unmitigated	0.1013	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	4.1000e-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	0.0232					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	4.1000e-004
<b>Total</b>	<b>0.1013</b>	<b>0.0000</b>	<b>3.3000e-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>3.6000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.1000e-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	0.0232					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.6000e-004	3.6000e-004	0.0000	0.0000	4.1000e-004
<b>Total</b>	<b>0.1013</b>	<b>0.0000</b>	<b>3.3000e-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>3.6000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.1000e-004</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.4177	0.0321	7.8000e-004	4.3344
Unmitigated	3.4177	0.0321	7.8000e-004	4.3349

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	0.980981 / 1.53435	3.4177	0.0321	7.8000e-004	4.3349
<b>Total</b>		<b>3.4177</b>	<b>0.0321</b>	<b>7.8000e-004</b>	<b>4.3349</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	0.980981 / 1.53435	3.4177	0.0321	7.8000e-004	4.3344
<b>Total</b>		<b>3.4177</b>	<b>0.0321</b>	<b>7.8000e-004</b>	<b>4.3344</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.2778	0.3119	0.0000	11.8278
Unmitigated	5.2778	0.3119	0.0000	11.8278

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	26	5.2778	0.3119	0.0000	11.8278
<b>Total</b>		<b>5.2778</b>	<b>0.3119</b>	<b>0.0000</b>	<b>11.8278</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	26	5.2778	0.3119	0.0000	11.8278
<b>Total</b>		<b>5.2778</b>	<b>0.3119</b>	<b>0.0000</b>	<b>11.8278</b>

## 9.0 Operational Offroad

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

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### AAU Existing Site 3 San Francisco County, Annual

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	52.00	Dwelling Unit	1.37	52,000.00	81

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Population adjusted according to information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fireplaces or wood stoves.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	35,100.00	11,050.00
tblArchitecturalCoating	ConstArea_Residential_Interior	105,300.00	33,151.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00

tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	200.00	100.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	4.00	2.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	2.00	1.00
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	28.60	0.00
tblFireplaces	NumberNoFireplace	16.12	0.00
tblFireplaces	NumberWood	7.28	0.00
tblLandUse	Population	149.00	81.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00

tblProjectCharacteristics	OperationalYear	2014	2005
tblSolidWaste	SolidWasteGenerationRate	23.92	7.53
tblTripsAndVMT	VendorTripNumber	6.00	2.00
tblTripsAndVMT	WorkerTripNumber	37.00	12.00
tblTripsAndVMT	WorkerTripNumber	7.00	2.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	3,388,009.33	1,066,571.40
tblWater	OutdoorWaterUseRate	2,135,918.93	672,403.71
tblWoodstoves	NumberCatalytic	0.26	0.00
tblWoodstoves	NumberNoncatalytic	0.26	0.00

## 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	0.3038	6.0900e-003	0.4478	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.6307	0.6307	1.0100e-003	0.0000	0.6519
Energy	1.9800e-003	0.0169	7.1900e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	73.0899	73.0899	2.7900e-003	8.6000e-004	73.4150
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	1.5285	0.0000	1.5285	0.0903	0.0000	3.4255
Water						0.0000	0.0000		0.0000	0.0000	0.3384	2.3636	2.7019	0.0349	8.4000e-004	3.6953
<b>Total</b>	<b>0.3058</b>	<b>0.0230</b>	<b>0.4550</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>3.2600e-003</b>	<b>3.2600e-003</b>	<b>0.0000</b>	<b>3.2600e-003</b>	<b>3.2600e-003</b>	<b>1.8669</b>	<b>76.0841</b>	<b>77.9510</b>	<b>0.1290</b>	<b>1.7000e-003</b>	<b>81.1877</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	0.3038	6.0900e-003	0.4478	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.6307	0.6307	1.0100e-003	0.0000	0.6519
Energy	1.9800e-003	0.0169	7.1900e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	73.0899	73.0899	2.7900e-003	8.6000e-004	73.4150
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	1.5285	0.0000	1.5285	0.0903	0.0000	3.4255
Water						0.0000	0.0000		0.0000	0.0000	0.3384	2.3636	2.7019	0.0349	8.4000e-004	3.6947
<b>Total</b>	<b>0.3058</b>	<b>0.0230</b>	<b>0.4550</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>3.2600e-003</b>	<b>3.2600e-003</b>	<b>0.0000</b>	<b>3.2600e-003</b>	<b>3.2600e-003</b>	<b>1.8669</b>	<b>76.0841</b>	<b>77.9510</b>	<b>0.1290</b>	<b>1.7000e-003</b>	<b>81.1872</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	0.01	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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 33,151; Residential Outdoor: 11,050; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	12.00	2.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>

### 3.2 Demolition - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>



### 3.3 Site Preparation - 2016

#### 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.4 Grading - 2016

#### 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4584</b>	<b>53.4584</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7970</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.4400e-003	9.8700e-003	0.0184	2.0000e-005	6.4000e-004	1.4000e-004	7.8000e-004	1.8000e-004	1.3000e-004	3.1000e-004	0.0000	2.0778	2.0778	2.0000e-005	0.0000	2.0782
Worker	2.1600e-003	2.9700e-003	0.0298	7.0000e-005	5.4400e-003	5.0000e-005	5.4900e-003	1.4500e-003	5.0000e-005	1.4900e-003	0.0000	5.4244	5.4244	2.9000e-004	0.0000	5.4304
<b>Total</b>	<b>3.6000e-003</b>	<b>0.0128</b>	<b>0.0482</b>	<b>9.0000e-005</b>	<b>6.0800e-003</b>	<b>1.9000e-004</b>	<b>6.2700e-003</b>	<b>1.6300e-003</b>	<b>1.8000e-004</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>7.5022</b>	<b>7.5022</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>7.5086</b>

### 3.5 Building Construction - 2016

#### 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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4583</b>	<b>53.4583</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7969</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.4400e-003	9.8700e-003	0.0184	2.0000e-005	6.4000e-004	1.4000e-004	7.8000e-004	1.8000e-004	1.3000e-004	3.1000e-004	0.0000	2.0778	2.0778	2.0000e-005	0.0000	2.0782
Worker	2.1600e-003	2.9700e-003	0.0298	7.0000e-005	5.4400e-003	5.0000e-005	5.4900e-003	1.4500e-003	5.0000e-005	1.4900e-003	0.0000	5.4244	5.4244	2.9000e-004	0.0000	5.4304
<b>Total</b>	<b>3.6000e-003</b>	<b>0.0128</b>	<b>0.0482</b>	<b>9.0000e-005</b>	<b>6.0800e-003</b>	<b>1.9000e-004</b>	<b>6.2700e-003</b>	<b>1.6300e-003</b>	<b>1.8000e-004</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>7.5022</b>	<b>7.5022</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>7.5086</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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>

### 3.6 Paving - 2016

#### 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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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	0.2561					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>0.2570</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</b>



### 3.7 Architectural Coating - 2016

#### 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	0.2561					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>0.2570</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 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	53.5107	53.5107	2.4200e-003	5.0000e-004	53.7167
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	53.5107	53.5107	2.4200e-003	5.0000e-004	53.7167
NaturalGas Mitigated	1.9800e-003	0.0169	7.1900e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	19.5791	19.5791	3.8000e-004	3.6000e-004	19.6983
NaturalGas Unmitigated	1.9800e-003	0.0169	7.1900e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	19.5791	19.5791	3.8000e-004	3.6000e-004	19.6983

### 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					
Apartments Mid Rise	366899	1.9800e-003	0.0169	7.1900e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	19.5791	19.5791	3.8000e-004	3.6000e-004	19.6983
<b>Total</b>		<b>1.9800e-003</b>	<b>0.0169</b>	<b>7.1900e-003</b>	<b>1.1000e-004</b>		<b>1.3700e-003</b>	<b>1.3700e-003</b>		<b>1.3700e-003</b>	<b>1.3700e-003</b>	<b>0.0000</b>	<b>19.5791</b>	<b>19.5791</b>	<b>3.8000e-004</b>	<b>3.6000e-004</b>	<b>19.6983</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					
Apartments Mid Rise	366899	1.9800e-003	0.0169	7.1900e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	19.5791	19.5791	3.8000e-004	3.6000e-004	19.6983
<b>Total</b>		<b>1.9800e-003</b>	<b>0.0169</b>	<b>7.1900e-003</b>	<b>1.1000e-004</b>		<b>1.3700e-003</b>	<b>1.3700e-003</b>		<b>1.3700e-003</b>	<b>1.3700e-003</b>	<b>0.0000</b>	<b>19.5791</b>	<b>19.5791</b>	<b>3.8000e-004</b>	<b>3.6000e-004</b>	<b>19.6983</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	183942	53.5107	2.4200e-003	5.0000e-004	53.7167
<b>Total</b>		<b>53.5107</b>	<b>2.4200e-003</b>	<b>5.0000e-004</b>	<b>53.7167</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	183942	53.5107	2.4200e-003	5.0000e-004	53.7167
<b>Total</b>		<b>53.5107</b>	<b>2.4200e-003</b>	<b>5.0000e-004</b>	<b>53.7167</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	0.3038	6.0900e-003	0.4478	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.6307	0.6307	1.0100e-003	0.0000	0.6519
Unmitigated	0.3038	6.0900e-003	0.4478	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.6307	0.6307	1.0100e-003	0.0000	0.6519

## 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	0.0813					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2031					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0194	6.0900e-003	0.4478	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.6307	0.6307	1.0100e-003	0.0000	0.6519
<b>Total</b>	<b>0.3038</b>	<b>6.0900e-003</b>	<b>0.4478</b>	<b>2.0000e-005</b>		<b>1.8900e-003</b>	<b>1.8900e-003</b>		<b>1.8900e-003</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>0.6307</b>	<b>0.6307</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.6519</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	0.0813					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2031					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0194	6.0900e-003	0.4478	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.6307	0.6307	1.0100e-003	0.0000	0.6519
<b>Total</b>	<b>0.3038</b>	<b>6.0900e-003</b>	<b>0.4478</b>	<b>2.0000e-005</b>		<b>1.8900e-003</b>	<b>1.8900e-003</b>		<b>1.8900e-003</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>0.6307</b>	<b>0.6307</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.6519</b>

### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.7019	0.0349	8.4000e-004	3.6947
Unmitigated	2.7019	0.0349	8.4000e-004	3.6953

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.06657 / 0.672404	2.7019	0.0349	8.4000e-004	3.6953
<b>Total</b>		<b>2.7019</b>	<b>0.0349</b>	<b>8.4000e-004</b>	<b>3.6953</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.06657 / 0.672404	2.7019	0.0349	8.4000e-004	3.6947
<b>Total</b>		<b>2.7019</b>	<b>0.0349</b>	<b>8.4000e-004</b>	<b>3.6947</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste



**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.5285	0.0903	0.0000	3.4255
Unmitigated	1.5285	0.0903	0.0000	3.4255

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	7.53	1.5285	0.0903	0.0000	3.4255
<b>Total</b>		<b>1.5285</b>	<b>0.0903</b>	<b>0.0000</b>	<b>3.4255</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	7.53	1.5285	0.0903	0.0000	3.4255
<b>Total</b>		<b>1.5285</b>	<b>0.0903</b>	<b>0.0000</b>	<b>3.4255</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 4**  
**San Francisco County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	3.00	Dwelling Unit	0.08	3,000.00	20

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1. 1/29/16

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fireplaces or wood stoves.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	2,025.00	3,426.00
tblArchitecturalCoating	ConstArea_Residential_Interior	6,075.00	10,279.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_Residential_Exterior	2025	2700
tblAreaCoating	Area_Residential_Interior	6075	8100
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	1.65	0.00
tblFireplaces	NumberNoFireplace	0.93	0.00
tblFireplaces	NumberWood	0.42	0.00
tblLandUse	Population	9.00	20.00
tblProjectCharacteristics	OperationalYear	2014	2005
tblSolidWaste	SolidWasteGenerationRate	1.38	2.34
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	0.00	1.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	195,462.08	330,982.45
tblWater	OutdoorWaterUseRate	123,226.09	208,662.85
tblWoodstoves	NumberCatalytic	0.02	0.00
tblWoodstoves	NumberNoncatalytic	0.02	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					
2016	0.1626	0.7985	0.5140	7.3000e-004	4.1500e-003	0.0545	0.0586	1.2800e-003	0.0503	0.0516	0.0000	67.3340	67.3340	0.0185	0.0000	67.7218
<b>Total</b>	<b>0.1626</b>	<b>0.7985</b>	<b>0.5140</b>	<b>7.3000e-004</b>	<b>4.1500e-003</b>	<b>0.0545</b>	<b>0.0586</b>	<b>1.2800e-003</b>	<b>0.0503</b>	<b>0.0516</b>	<b>0.0000</b>	<b>67.3340</b>	<b>67.3340</b>	<b>0.0185</b>	<b>0.0000</b>	<b>67.7218</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					
2016	0.1626	0.7985	0.5140	7.3000e-004	4.1500e-003	0.0545	0.0586	1.2800e-003	0.0503	0.0516	0.0000	67.3340	67.3340	0.0185	0.0000	67.7217
<b>Total</b>	<b>0.1626</b>	<b>0.7985</b>	<b>0.5140</b>	<b>7.3000e-004</b>	<b>4.1500e-003</b>	<b>0.0545</b>	<b>0.0586</b>	<b>1.2800e-003</b>	<b>0.0503</b>	<b>0.0516</b>	<b>0.0000</b>	<b>67.3340</b>	<b>67.3340</b>	<b>0.0185</b>	<b>0.0000</b>	<b>67.7217</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

## 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	0.0191	3.5000e-004	0.0258	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0364	0.0364	6.0000e-005	0.0000	0.0376
Energy	1.1000e-004	9.8000e-004	4.2000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	4.2167	4.2167	1.6000e-004	5.0000e-005	4.2355
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	0.4750	0.0000	0.4750	0.0281	0.0000	1.0645
Water						0.0000	0.0000		0.0000	0.0000	0.1050	0.7335	0.8385	0.0108	2.6000e-004	1.1467
<b>Total</b>	<b>0.0192</b>	<b>1.3300e-003</b>	<b>0.0263</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.5800</b>	<b>4.9866</b>	<b>5.5666</b>	<b>0.0391</b>	<b>3.1000e-004</b>	<b>6.4843</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	0.0191	3.5000e-004	0.0258	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0364	0.0364	6.0000e-005	0.0000	0.0376
Energy	1.1000e-004	9.8000e-004	4.2000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	4.2167	4.2167	1.6000e-004	5.0000e-005	4.2355
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	0.4750	0.0000	0.4750	0.0281	0.0000	1.0645
Water						0.0000	0.0000		0.0000	0.0000	0.1050	0.7335	0.8385	0.0108	2.6000e-004	1.1466
<b>Total</b>	<b>0.0192</b>	<b>1.3300e-003</b>	<b>0.0263</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.5800</b>	<b>4.9866</b>	<b>5.5666</b>	<b>0.0391</b>	<b>3.1000e-004</b>	<b>6.4842</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 10,279; Residential Outdoor: 3,426; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	4.00	1.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>

**3.2 Demolition - 2016****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>

**3.3 Site Preparation - 2016****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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.4 Grading - 2016

#### 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4584</b>	<b>53.4584</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7970</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	7.2000e-004	4.9300e-003	9.2000e-003	1.0000e-005	3.2000e-004	7.0000e-005	3.9000e-004	9.0000e-005	7.0000e-005	1.6000e-004	0.0000	1.0389	1.0389	1.0000e-005	0.0000	1.0391
Worker	7.2000e-004	9.9000e-004	9.9200e-003	2.0000e-005	1.8100e-003	2.0000e-005	1.8300e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	1.8081	1.8081	1.0000e-004	0.0000	1.8102
<b>Total</b>	<b>1.4400e-003</b>	<b>5.9200e-003</b>	<b>0.0191</b>	<b>3.0000e-005</b>	<b>2.1300e-003</b>	<b>9.0000e-005</b>	<b>2.2200e-003</b>	<b>5.7000e-004</b>	<b>9.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>2.8470</b>	<b>2.8470</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.8492</b>



### 3.5 Building Construction - 2016

#### 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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4583</b>	<b>53.4583</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7969</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	7.2000e-004	4.9300e-003	9.2000e-003	1.0000e-005	3.2000e-004	7.0000e-005	3.9000e-004	9.0000e-005	7.0000e-005	1.6000e-004	0.0000	1.0389	1.0389	1.0000e-005	0.0000	1.0391
Worker	7.2000e-004	9.9000e-004	9.9200e-003	2.0000e-005	1.8100e-003	2.0000e-005	1.8300e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	1.8081	1.8081	1.0000e-004	0.0000	1.8102
<b>Total</b>	<b>1.4400e-003</b>	<b>5.9200e-003</b>	<b>0.0191</b>	<b>3.0000e-005</b>	<b>2.1300e-003</b>	<b>9.0000e-005</b>	<b>2.2200e-003</b>	<b>5.7000e-004</b>	<b>9.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>2.8470</b>	<b>2.8470</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.8492</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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>

### 3.6 Paving - 2016

#### 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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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	0.0794					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>0.0803</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>

#### 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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>

### 3.7 Architectural Coating - 2016

#### 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	0.0794					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>0.0803</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>

#### 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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 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	3.0872	3.0872	1.4000e-004	3.0000e-005	3.0990
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3.0872	3.0872	1.4000e-004	3.0000e-005	3.0990
NaturalGas Mitigated	1.1000e-004	9.8000e-004	4.2000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1296	1.1296	2.0000e-005	2.0000e-005	1.1364
NaturalGas Unmitigated	1.1000e-004	9.8000e-004	4.2000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1296	1.1296	2.0000e-005	2.0000e-005	1.1364

### 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					
Apartments Mid Rise	21167.3	1.1000e-004	9.8000e-004	4.2000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1296	1.1296	2.0000e-005	2.0000e-005	1.1364
<b>Total</b>		<b>1.1000e-004</b>	<b>9.8000e-004</b>	<b>4.2000e-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>1.1296</b>	<b>1.1296</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.1364</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					
Apartments Mid Rise	21167.3	1.1000e-004	9.8000e-004	4.2000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1296	1.1296	2.0000e-005	2.0000e-005	1.1364
<b>Total</b>		<b>1.1000e-004</b>	<b>9.8000e-004</b>	<b>4.2000e-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>1.1296</b>	<b>1.1296</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.1364</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	10612	3.0872	1.4000e-004	3.0000e-005	3.0990
<b>Total</b>		<b>3.0872</b>	<b>1.4000e-004</b>	<b>3.0000e-005</b>	<b>3.0990</b>



### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	10612	3.0872	1.4000e-004	3.0000e-005	3.0990
<b>Total</b>		<b>3.0872</b>	<b>1.4000e-004</b>	<b>3.0000e-005</b>	<b>3.0990</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	0.0191	3.5000e-004	0.0258	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0364	0.0364	6.0000e-005	0.0000	0.0376
Unmitigated	0.0191	3.5000e-004	0.0258	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0364	0.0364	6.0000e-005	0.0000	0.0376

## 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	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1200e-003	3.5000e-004	0.0258	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0364	0.0364	6.0000e-005	0.0000	0.0376
<b>Total</b>	<b>0.0191</b>	<b>3.5000e-004</b>	<b>0.0258</b>	<b>0.0000</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.0364</b>	<b>0.0364</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0376</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	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	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1200e-003	3.5000e-004	0.0258	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0364	0.0364	6.0000e-005	0.0000	0.0376
<b>Total</b>	<b>0.0191</b>	<b>3.5000e-004</b>	<b>0.0258</b>	<b>0.0000</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.0364</b>	<b>0.0364</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0376</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.8385	0.0108	2.6000e-004	1.1466
Unmitigated	0.8385	0.0108	2.6000e-004	1.1467

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0.330982 / 0.208663	0.8385	0.0108	2.6000e-004	1.1467
<b>Total</b>		<b>0.8385</b>	<b>0.0108</b>	<b>2.6000e-004</b>	<b>1.1467</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0.330982 / 0.208663	0.8385	0.0108	2.6000e-004	1.1466
<b>Total</b>		<b>0.8385</b>	<b>0.0108</b>	<b>2.6000e-004</b>	<b>1.1466</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.4750	0.0281	0.0000	1.0645
Unmitigated	0.4750	0.0281	0.0000	1.0645

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	2.34	0.4750	0.0281	0.0000	1.0645
<b>Total</b>		<b>0.4750</b>	<b>0.0281</b>	<b>0.0000</b>	<b>1.0645</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	2.34	0.4750	0.0281	0.0000	1.0645
<b>Total</b>		<b>0.4750</b>	<b>0.0281</b>	<b>0.0000</b>	<b>1.0645</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 5**  
**San Francisco County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	22.00	Dwelling Unit	0.58	22,000.00	56

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1. 1/29/2016

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fire places or wood stoves.

Area Coating -

Energy Use - adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,850.00	8,030.00
tblArchitecturalCoating	ConstArea_Residential_Interior	44,550.00	24,091.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_Residential_Exterior	14850	12150
tblAreaCoating	Area_Residential_Interior	44550	36450
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	12.10	0.00
tblFireplaces	NumberNoFireplace	6.82	0.00
tblFireplaces	NumberWood	3.08	0.00
tblLandUse	Population	63.00	56.00
tblProjectCharacteristics	OperationalYear	2014	1990
tblSolidWaste	SolidWasteGenerationRate	10.12	5.47
tblTripsAndVMT	VendorTripNumber	2.00	1.00
tblTripsAndVMT	WorkerTripNumber	16.00	9.00
tblTripsAndVMT	WorkerTripNumber	3.00	2.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	1,433,388.56	775,332.90
tblWater	OutdoorWaterUseRate	903,658.01	488,796.83
tblWoodstoves	NumberCatalytic	0.11	0.00
tblWoodstoves	NumberNoncatalytic	0.11	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					
2016	0.2702	0.7998	0.5265	7.6000e-004	6.4400e-003	0.0545	0.0609	1.8900e-003	0.0504	0.0522	0.0000	69.6168	69.6168	0.0186	0.0000	70.0071
<b>Total</b>	<b>0.2702</b>	<b>0.7998</b>	<b>0.5265</b>	<b>7.6000e-004</b>	<b>6.4400e-003</b>	<b>0.0545</b>	<b>0.0609</b>	<b>1.8900e-003</b>	<b>0.0504</b>	<b>0.0522</b>	<b>0.0000</b>	<b>69.6168</b>	<b>69.6168</b>	<b>0.0186</b>	<b>0.0000</b>	<b>70.0071</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					
2016	0.2702	0.7998	0.5265	7.6000e-004	6.4400e-003	0.0545	0.0609	1.8900e-003	0.0504	0.0522	0.0000	69.6167	69.6167	0.0186	0.0000	70.0070
<b>Total</b>	<b>0.2702</b>	<b>0.7998</b>	<b>0.5265</b>	<b>7.6000e-004</b>	<b>6.4400e-003</b>	<b>0.0545</b>	<b>0.0609</b>	<b>1.8900e-003</b>	<b>0.0504</b>	<b>0.0522</b>	<b>0.0000</b>	<b>69.6167</b>	<b>69.6167</b>	<b>0.0186</b>	<b>0.0000</b>	<b>70.0070</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

**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	0.1331	2.4900e-003	0.3683	1.3000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2668	0.2668	1.8900e-003	0.0000	0.3066
Energy	8.4000e-004	7.1500e-003	3.0400e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	30.9226	30.9226	1.1800e-003	3.6000e-004	31.0602
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	1.1104	0.0000	1.1104	0.0656	0.0000	2.4884
Water						0.0000	0.0000		0.0000	0.0000	0.2460	1.7182	1.9641	0.0253	6.1000e-004	2.6862
<b>Total</b>	<b>0.1340</b>	<b>9.6400e-003</b>	<b>0.3714</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>9.9000e-004</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>9.9000e-004</b>	<b>9.9000e-004</b>	<b>1.3563</b>	<b>32.9076</b>	<b>34.2640</b>	<b>0.0940</b>	<b>9.7000e-004</b>	<b>36.5414</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	0.1331	2.4900e-003	0.3683	1.3000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2668	0.2668	1.8900e-003	0.0000	0.3066
Energy	8.4000e-004	7.1500e-003	3.0400e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	30.9226	30.9226	1.1800e-003	3.6000e-004	31.0602
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	1.1104	0.0000	1.1104	0.0656	0.0000	2.4884
Water						0.0000	0.0000		0.0000	0.0000	0.2460	1.7182	1.9641	0.0253	6.1000e-004	2.6858
<b>Total</b>	<b>0.1340</b>	<b>9.6400e-003</b>	<b>0.3714</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>9.9000e-004</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>9.9000e-004</b>	<b>9.9000e-004</b>	<b>1.3563</b>	<b>32.9076</b>	<b>34.2640</b>	<b>0.0940</b>	<b>9.7000e-004</b>	<b>36.5410</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 24,091; Residential Outdoor: 8,030; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	9.00	1.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>

### 3.2 Demolition - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>



### 3.3 Site Preparation - 2016

#### 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.4 Grading - 2016

#### 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4584</b>	<b>53.4584</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7970</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	7.2000e-004	4.9300e-003	9.2000e-003	1.0000e-005	3.2000e-004	7.0000e-005	3.9000e-004	9.0000e-005	7.0000e-005	1.6000e-004	0.0000	1.0389	1.0389	1.0000e-005	0.0000	1.0391
Worker	1.6200e-003	2.2300e-003	0.0223	5.0000e-005	4.0800e-003	4.0000e-005	4.1200e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	4.0683	4.0683	2.2000e-004	0.0000	4.0728
<b>Total</b>	<b>2.3400e-003</b>	<b>7.1600e-003</b>	<b>0.0315</b>	<b>6.0000e-005</b>	<b>4.4000e-003</b>	<b>1.1000e-004</b>	<b>4.5100e-003</b>	<b>1.1800e-003</b>	<b>1.0000e-004</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>5.1072</b>	<b>5.1072</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>5.1119</b>

### 3.5 Building Construction - 2016

#### 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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4583</b>	<b>53.4583</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7969</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	7.2000e-004	4.9300e-003	9.2000e-003	1.0000e-005	3.2000e-004	7.0000e-005	3.9000e-004	9.0000e-005	7.0000e-005	1.6000e-004	0.0000	1.0389	1.0389	1.0000e-005	0.0000	1.0391
Worker	1.6200e-003	2.2300e-003	0.0223	5.0000e-005	4.0800e-003	4.0000e-005	4.1200e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	4.0683	4.0683	2.2000e-004	0.0000	4.0728
<b>Total</b>	<b>2.3400e-003</b>	<b>7.1600e-003</b>	<b>0.0315</b>	<b>6.0000e-005</b>	<b>4.4000e-003</b>	<b>1.1000e-004</b>	<b>4.5100e-003</b>	<b>1.1800e-003</b>	<b>1.0000e-004</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>5.1072</b>	<b>5.1072</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>5.1119</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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>

### 3.6 Paving - 2016

#### 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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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	0.1861					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>0.1870</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</b>



### 3.7 Architectural Coating - 2016

#### 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	0.1861					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>0.1870</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 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	22.6392	22.6392	1.0200e-003	2.1000e-004	22.7263
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.6392	22.6392	1.0200e-003	2.1000e-004	22.7263
NaturalGas Mitigated	8.4000e-004	7.1500e-003	3.0400e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2835	8.2835	1.6000e-004	1.5000e-004	8.3339
NaturalGas Unmitigated	8.4000e-004	7.1500e-003	3.0400e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2835	8.2835	1.6000e-004	1.5000e-004	8.3339

### 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					
Apartments Mid Rise	155227	8.4000e-004	7.1500e-003	3.0400e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2835	8.2835	1.6000e-004	1.5000e-004	8.3339
<b>Total</b>		<b>8.4000e-004</b>	<b>7.1500e-003</b>	<b>3.0400e-003</b>	<b>5.0000e-005</b>		<b>5.8000e-004</b>	<b>5.8000e-004</b>		<b>5.8000e-004</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>8.2835</b>	<b>8.2835</b>	<b>1.6000e-004</b>	<b>1.5000e-004</b>	<b>8.3339</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					
Apartments Mid Rise	155227	8.4000e-004	7.1500e-003	3.0400e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2835	8.2835	1.6000e-004	1.5000e-004	8.3339
<b>Total</b>		<b>8.4000e-004</b>	<b>7.1500e-003</b>	<b>3.0400e-003</b>	<b>5.0000e-005</b>		<b>5.8000e-004</b>	<b>5.8000e-004</b>		<b>5.8000e-004</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>8.2835</b>	<b>8.2835</b>	<b>1.6000e-004</b>	<b>1.5000e-004</b>	<b>8.3339</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	77821.5	22.6392	1.0200e-003	2.1000e-004	22.7263
<b>Total</b>		<b>22.6392</b>	<b>1.0200e-003</b>	<b>2.1000e-004</b>	<b>22.7263</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	77821.5	22.6392	1.0200e-003	2.1000e-004	22.7263
<b>Total</b>		<b>22.6392</b>	<b>1.0200e-003</b>	<b>2.1000e-004</b>	<b>22.7263</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	0.1331	2.4900e-003	0.3683	1.3000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2668	0.2668	1.8900e-003	0.0000	0.3066
Unmitigated	0.1331	2.4900e-003	0.3683	1.3000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2668	0.2668	1.8900e-003	0.0000	0.3066

### 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	0.0282					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0859					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0191	2.4900e-003	0.3683	1.3000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2668	0.2668	1.8900e-003	0.0000	0.3066
<b>Total</b>	<b>0.1331</b>	<b>2.4900e-003</b>	<b>0.3683</b>	<b>1.3000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.2668</b>	<b>0.2668</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>0.3066</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	0.0282					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0859					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0191	2.4900e-003	0.3683	1.3000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	0.2668	0.2668	1.8900e-003	0.0000	0.3066
<b>Total</b>	<b>0.1331</b>	<b>2.4900e-003</b>	<b>0.3683</b>	<b>1.3000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.2668</b>	<b>0.2668</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>0.3066</b>

### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.9641	0.0253	6.1000e-004	2.6858
Unmitigated	1.9641	0.0253	6.1000e-004	2.6862

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0.775333 / 0.488797	1.9641	0.0253	6.1000e-004	2.6862
<b>Total</b>		<b>1.9641</b>	<b>0.0253</b>	<b>6.1000e-004</b>	<b>2.6862</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0.775333 / 0.488797	1.9641	0.0253	6.1000e-004	2.6858
<b>Total</b>		<b>1.9641</b>	<b>0.0253</b>	<b>6.1000e-004</b>	<b>2.6858</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste



**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.1104	0.0656	0.0000	2.4884
Unmitigated	1.1104	0.0656	0.0000	2.4884

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	5.47	1.1104	0.0656	0.0000	2.4884
<b>Total</b>		<b>1.1104</b>	<b>0.0656</b>	<b>0.0000</b>	<b>2.4884</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	5.47	1.1104	0.0656	0.0000	2.4884
<b>Total</b>		<b>1.1104</b>	<b>0.0656</b>	<b>0.0000</b>	<b>2.4884</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 6**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	27.91	1000sqft	0.64	27,912.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.52 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 4/19/16 adjustment to trip rates due to updated information.

Energy Use - adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblLandUse	LandUseSquareFeet	27,910.00	27,912.00
tblProjectCharacteristics	OperationalYear	2014	2005
tblVehicleTrips	ST_TR	11.23	6.40
tblVehicleTrips	SU_TR	1.21	6.40
tblVehicleTrips	WD_TR	27.49	6.40

## 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	0.1414	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-004	5.0000e-004	0.0000	0.0000	5.5000e-004
Energy	4.0900e-003	0.0372	0.0312	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	124.1561	124.1561	4.5600e-003	1.5200e-003	124.7245
Mobile	0.2989	0.5988	3.2532	5.2900e-003	0.1524	0.0127	0.1651	0.0442	0.0127	0.0570	0.0000	238.8880	238.8880	0.0232	0.0000	239.3755
Waste						0.0000	0.0000		0.0000	0.0000	7.3645	0.0000	7.3645	0.4352	0.0000	16.5044
Water						0.0000	0.0000		0.0000	0.0000	0.4343	4.3351	4.7694	0.0448	1.0900e-003	6.0493
<b>Total</b>	<b>0.4444</b>	<b>0.6359</b>	<b>3.2847</b>	<b>5.5100e-003</b>	<b>0.1524</b>	<b>0.0155</b>	<b>0.1679</b>	<b>0.0442</b>	<b>0.0155</b>	<b>0.0598</b>	<b>7.7988</b>	<b>367.3796</b>	<b>375.1784</b>	<b>0.5078</b>	<b>2.6100e-003</b>	<b>386.6542</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	0.1414	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-004	5.0000e-004	0.0000	0.0000	5.5000e-004
Energy	4.0900e-003	0.0372	0.0312	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	124.1561	124.1561	4.5600e-003	1.5200e-003	124.7245
Mobile	0.2989	0.5988	3.2532	5.2900e-003	0.1524	0.0127	0.1651	0.0442	0.0127	0.0570	0.0000	238.8880	238.8880	0.0232	0.0000	239.3755
Waste						0.0000	0.0000		0.0000	0.0000	7.3645	0.0000	7.3645	0.4352	0.0000	16.5044
Water						0.0000	0.0000		0.0000	0.0000	0.4343	4.3351	4.7694	0.0448	1.0900e-003	6.0486
<b>Total</b>	<b>0.4444</b>	<b>0.6359</b>	<b>3.2847</b>	<b>5.5100e-003</b>	<b>0.1524</b>	<b>0.0155</b>	<b>0.1679</b>	<b>0.0442</b>	<b>0.0155</b>	<b>0.0598</b>	<b>7.7988</b>	<b>367.3796</b>	<b>375.1784</b>	<b>0.5078</b>	<b>2.6100e-003</b>	<b>386.6535</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>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>	<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	1/1/2016	1/14/2016	5	10	
2	Site Preparation	Site Preparation	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 41,868; Non-Residential Outdoor: 13,956 (Architectural Coating – sqft)**

**OffRoad Equipment**



Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	12.00	5.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>

### 3.2 Demolition - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>

**3.3 Site Preparation - 2016****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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.4 Grading - 2016

#### 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4584</b>	<b>53.4584</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7970</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	3.5900e-003	0.0247	0.0460	6.0000e-005	1.6000e-003	3.6000e-004	1.9500e-003	4.6000e-004	3.3000e-004	7.8000e-004	0.0000	5.1945	5.1945	4.0000e-005	0.0000	5.1954
Worker	2.1600e-003	2.9700e-003	0.0298	7.0000e-005	5.4400e-003	5.0000e-005	5.4900e-003	1.4500e-003	5.0000e-005	1.4900e-003	0.0000	5.4244	5.4244	2.9000e-004	0.0000	5.4304
<b>Total</b>	<b>5.7500e-003</b>	<b>0.0276</b>	<b>0.0757</b>	<b>1.3000e-004</b>	<b>7.0400e-003</b>	<b>4.1000e-004</b>	<b>7.4400e-003</b>	<b>1.9100e-003</b>	<b>3.8000e-004</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>10.6189</b>	<b>10.6189</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>10.6258</b>



### 3.5 Building Construction - 2016

#### 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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4583</b>	<b>53.4583</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7969</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	3.5900e-003	0.0247	0.0460	6.0000e-005	1.6000e-003	3.6000e-004	1.9500e-003	4.6000e-004	3.3000e-004	7.8000e-004	0.0000	5.1945	5.1945	4.0000e-005	0.0000	5.1954
Worker	2.1600e-003	2.9700e-003	0.0298	7.0000e-005	5.4400e-003	5.0000e-005	5.4900e-003	1.4500e-003	5.0000e-005	1.4900e-003	0.0000	5.4244	5.4244	2.9000e-004	0.0000	5.4304
<b>Total</b>	<b>5.7500e-003</b>	<b>0.0276</b>	<b>0.0757</b>	<b>1.3000e-004</b>	<b>7.0400e-003</b>	<b>4.1000e-004</b>	<b>7.4400e-003</b>	<b>1.9100e-003</b>	<b>3.8000e-004</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>10.6189</b>	<b>10.6189</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>10.6258</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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>

**3.6 Paving - 2016****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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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	0.3234					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>0.3244</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</b>

### 3.7 Architectural Coating - 2016

#### 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	0.3234					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>0.3244</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</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	0.2989	0.5988	3.2532	5.2900e-003	0.1524	0.0127	0.1651	0.0442	0.0127	0.0570	0.0000	238.8880	238.8880	0.0232	0.0000	239.3755
Unmitigated	0.2989	0.5988	3.2532	5.2900e-003	0.1524	0.0127	0.1651	0.0442	0.0127	0.0570	0.0000	238.8880	238.8880	0.0232	0.0000	239.3755

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	178.62	178.62	178.62	453,622	453,622
Total	178.62	178.62	178.62	453,622	453,622

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 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	83.7164	83.7164	3.7900e-003	7.8000e-004	84.0387
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	83.7164	83.7164	3.7900e-003	7.8000e-004	84.0387
NaturalGas Mitigated	4.0900e-003	0.0372	0.0312	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	40.4397	40.4397	7.8000e-004	7.4000e-004	40.6858
NaturalGas Unmitigated	4.0900e-003	0.0372	0.0312	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	40.4397	40.4397	7.8000e-004	7.4000e-004	40.6858

### 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					
Junior College (2Yr)	757811	4.0900e-003	0.0372	0.0312	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	40.4397	40.4397	7.8000e-004	7.4000e-004	40.6858
<b>Total</b>		<b>4.0900e-003</b>	<b>0.0372</b>	<b>0.0312</b>	<b>2.2000e-004</b>		<b>2.8200e-003</b>	<b>2.8200e-003</b>		<b>2.8200e-003</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>40.4397</b>	<b>40.4397</b>	<b>7.8000e-004</b>	<b>7.4000e-004</b>	<b>40.6858</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					
Junior College (2Yr)	757811	4.0900e-003	0.0372	0.0312	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	40.4397	40.4397	7.8000e-004	7.4000e-004	40.6858
<b>Total</b>		<b>4.0900e-003</b>	<b>0.0372</b>	<b>0.0312</b>	<b>2.2000e-004</b>		<b>2.8200e-003</b>	<b>2.8200e-003</b>		<b>2.8200e-003</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>40.4397</b>	<b>40.4397</b>	<b>7.8000e-004</b>	<b>7.4000e-004</b>	<b>40.6858</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	287773	83.7164	3.7900e-003	7.8000e-004	84.0387
<b>Total</b>		<b>83.7164</b>	<b>3.7900e-003</b>	<b>7.8000e-004</b>	<b>84.0387</b>



### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	287773	83.7164	3.7900e-003	7.8000e-004	84.0387
<b>Total</b>		<b>83.7164</b>	<b>3.7900e-003</b>	<b>7.8000e-004</b>	<b>84.0387</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	0.1414	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-004	5.0000e-004	0.0000	0.0000	5.5000e-004
Unmitigated	0.1414	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-004	5.0000e-004	0.0000	0.0000	5.5000e-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	0.0323					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1090					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	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-004	5.0000e-004	0.0000	0.0000	5.5000e-004
<b>Total</b>	<b>0.1414</b>	<b>0.0000</b>	<b>3.3000e-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>5.0000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.5000e-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	0.0323					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1090					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	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-004	5.0000e-004	0.0000	0.0000	5.5000e-004
<b>Total</b>	<b>0.1414</b>	<b>0.0000</b>	<b>3.3000e-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>5.0000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.5000e-004</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.7694	0.0448	1.0900e-003	6.0486
Unmitigated	4.7694	0.0448	1.0900e-003	6.0493

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	1.36896 / 2.14119	4.7694	0.0448	1.0900e-003	6.0493
<b>Total</b>		<b>4.7694</b>	<b>0.0448</b>	<b>1.0900e-003</b>	<b>6.0493</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	1.36896 / 2.14119	4.7694	0.0448	1.0900e-003	6.0486
<b>Total</b>		<b>4.7694</b>	<b>0.0448</b>	<b>1.0900e-003</b>	<b>6.0486</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.3645	0.4352	0.0000	16.5044
Unmitigated	7.3645	0.4352	0.0000	16.5044

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	36.28	7.3645	0.4352	0.0000	16.5044
<b>Total</b>		<b>7.3645</b>	<b>0.4352</b>	<b>0.0000</b>	<b>16.5044</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	36.28	7.3645	0.4352	0.0000	16.5044
<b>Total</b>		<b>7.3645</b>	<b>0.4352</b>	<b>0.0000</b>	<b>16.5044</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 8**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	107.91	1000sqft	2.48	107,908.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.414 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblLandUse	LandUseSquareFeet	107,910.00	107,908.00
tblProjectCharacteristics	OperationalYear	2014	1990
tblVehicleTrips	ST_TR	11.23	7.41
tblVehicleTrips	SU_TR	1.21	7.41
tblVehicleTrips	WD_TR	27.49	7.41

## 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	0.5469	1.0000e-005	3.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	1.9300e-003	1.9300e-003	4.0000e-005	0.0000	2.6900e-003
Energy	0.0158	0.1436	0.1206	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	479.9882	479.9882	0.0176	5.8900e-003	482.1856
Mobile	5.0858	6.5443	59.5761	0.4405	0.6827	0.0766	0.7593	0.1982	0.0766	0.2748	0.0000	1,066.6871	1,066.6871	0.3419	0.0000	1,073.8666
Waste						0.0000	0.0000		0.0000	0.0000	28.4756	0.0000	28.4756	1.6829	0.0000	63.8156
Water						0.0000	0.0000		0.0000	0.0000	1.6792	16.7608	18.4400	0.1732	4.2300e-003	23.3888
<b>Total</b>	<b>5.6485</b>	<b>6.6879</b>	<b>59.7000</b>	<b>0.4414</b>	<b>0.6827</b>	<b>0.0875</b>	<b>0.7702</b>	<b>0.1982</b>	<b>0.0875</b>	<b>0.2857</b>	<b>30.1548</b>	<b>1,563.4381</b>	<b>1,593.5929</b>	<b>2.2156</b>	<b>0.0101</b>	<b>1,643.2594</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	0.5469	1.0000e-005	3.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	1.9300e-003	1.9300e-003	4.0000e-005	0.0000	2.6900e-003
Energy	0.0158	0.1436	0.1206	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	479.9882	479.9882	0.0176	5.8900e-003	482.1856
Mobile	5.0858	6.5443	59.5761	0.4405	0.6827	0.0766	0.7593	0.1982	0.0766	0.2748	0.0000	1,066.6871	1,066.6871	0.3419	0.0000	1,073.8666
Waste						0.0000	0.0000		0.0000	0.0000	28.4756	0.0000	28.4756	1.6829	0.0000	63.8156
Water						0.0000	0.0000		0.0000	0.0000	1.6792	16.7608	18.4400	0.1732	4.2200e-003	23.3861
<b>Total</b>	<b>5.6485</b>	<b>6.6879</b>	<b>59.7000</b>	<b>0.4414</b>	<b>0.6827</b>	<b>0.0875</b>	<b>0.7702</b>	<b>0.1982</b>	<b>0.0875</b>	<b>0.2857</b>	<b>30.1548</b>	<b>1,563.4381</b>	<b>1,593.5929</b>	<b>2.2156</b>	<b>0.0101</b>	<b>1,643.2567</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	0.10	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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/2/2016	5	3	
3	Grading	Grading	2/3/2016	2/10/2016	5	6	
4	Building Construction	Building Construction	2/11/2016	12/14/2016	5	220	
5	Paving	Paving	12/15/2016	12/28/2016	5	10	
6	Architectural Coating	Architectural Coating	12/29/2016	1/11/2017	5	10	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 161,862; Non-Residential Outdoor: 53,954 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	45.00	18.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5629</b>	<b>22.5629</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6827</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5628</b>	<b>22.5628</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6826</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0500e-003	0.0462	0.0271	4.0000e-005		2.2700e-003	2.2700e-003		2.0900e-003	2.0900e-003	0.0000	3.3749	3.3749	1.0200e-003	0.0000	3.3962
<b>Total</b>	<b>4.0500e-003</b>	<b>0.0462</b>	<b>0.0271</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>2.2700e-003</b>	<b>4.6600e-003</b>	<b>2.6000e-004</b>	<b>2.0900e-003</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>3.3749</b>	<b>3.3749</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>3.3962</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	4.0000e-005	6.0000e-005	6.0000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1085	0.1085	1.0000e-005	0.0000	0.1086
<b>Total</b>	<b>4.0000e-005</b>	<b>6.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1085</b>	<b>0.1085</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1086</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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0500e-003	0.0462	0.0271	4.0000e-005		2.2700e-003	2.2700e-003		2.0900e-003	2.0900e-003	0.0000	3.3749	3.3749	1.0200e-003	0.0000	3.3962
<b>Total</b>	<b>4.0500e-003</b>	<b>0.0462</b>	<b>0.0271</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>2.2700e-003</b>	<b>4.6600e-003</b>	<b>2.6000e-004</b>	<b>2.0900e-003</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>3.3749</b>	<b>3.3749</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>3.3962</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	4.0000e-005	6.0000e-005	6.0000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1085	0.1085	1.0000e-005	0.0000	0.1086
<b>Total</b>	<b>4.0000e-005</b>	<b>6.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1085</b>	<b>0.1085</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1086</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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5600e-003	0.0898	0.0589	6.0000e-005		5.0000e-003	5.0000e-003		4.6000e-003	4.6000e-003	0.0000	5.8222	5.8222	1.7600e-003	0.0000	5.8590
<b>Total</b>	<b>8.5600e-003</b>	<b>0.0898</b>	<b>0.0589</b>	<b>6.0000e-005</b>	<b>0.0197</b>	<b>5.0000e-003</b>	<b>0.0247</b>	<b>0.0101</b>	<b>4.6000e-003</b>	<b>0.0147</b>	<b>0.0000</b>	<b>5.8222</b>	<b>5.8222</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.8590</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	0.0000	0.0000	0.0000	0.0000	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	1.4900e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2712	0.2712	1.0000e-005	0.0000	0.2715
<b>Total</b>	<b>1.1000e-004</b>	<b>1.5000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2712</b>	<b>0.2712</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2715</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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5600e-003	0.0898	0.0589	6.0000e-005		5.0000e-003	5.0000e-003		4.6000e-003	4.6000e-003	0.0000	5.8221	5.8221	1.7600e-003	0.0000	5.8590
<b>Total</b>	<b>8.5600e-003</b>	<b>0.0898</b>	<b>0.0589</b>	<b>6.0000e-005</b>	<b>0.0197</b>	<b>5.0000e-003</b>	<b>0.0247</b>	<b>0.0101</b>	<b>4.6000e-003</b>	<b>0.0147</b>	<b>0.0000</b>	<b>5.8221</b>	<b>5.8221</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.8590</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	0.0000	0.0000	0.0000	0.0000	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	1.4900e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2712	0.2712	1.0000e-005	0.0000	0.2715
<b>Total</b>	<b>1.1000e-004</b>	<b>1.5000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2712</b>	<b>0.2712</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2715</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	0.4068	2.7095	1.8388	2.7400e-003		0.1788	0.1788		0.1713	0.1713	0.0000	234.7292	234.7292	0.0541	0.0000	235.8650
<b>Total</b>	<b>0.4068</b>	<b>2.7095</b>	<b>1.8388</b>	<b>2.7400e-003</b>		<b>0.1788</b>	<b>0.1788</b>		<b>0.1713</b>	<b>0.1713</b>	<b>0.0000</b>	<b>234.7292</b>	<b>234.7292</b>	<b>0.0541</b>	<b>0.0000</b>	<b>235.8650</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
Vendor	0.0284	0.1954	0.3642	4.6000e-004	0.0127	2.8200e-003	0.0155	3.6200e-003	2.5900e-003	6.2100e-003	0.0000	41.1407	41.1407	3.3000e-004	0.0000	41.1476
Worker	0.0178	0.0245	0.2455	5.9000e-004	0.0449	4.1000e-004	0.0453	0.0119	3.8000e-004	0.0123	0.0000	44.7513	44.7513	2.3700e-003	0.0000	44.8011
<b>Total</b>	<b>0.0463</b>	<b>0.2199</b>	<b>0.6097</b>	<b>1.0500e-003</b>	<b>0.0576</b>	<b>3.2300e-003</b>	<b>0.0608</b>	<b>0.0156</b>	<b>2.9700e-003</b>	<b>0.0185</b>	<b>0.0000</b>	<b>85.8921</b>	<b>85.8921</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>85.9487</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	0.4068	2.7095	1.8388	2.7400e-003		0.1788	0.1788		0.1713	0.1713	0.0000	234.7289	234.7289	0.0541	0.0000	235.8647
<b>Total</b>	<b>0.4068</b>	<b>2.7095</b>	<b>1.8388</b>	<b>2.7400e-003</b>		<b>0.1788</b>	<b>0.1788</b>		<b>0.1713</b>	<b>0.1713</b>	<b>0.0000</b>	<b>234.7289</b>	<b>234.7289</b>	<b>0.0541</b>	<b>0.0000</b>	<b>235.8647</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	0.0284	0.1954	0.3642	4.6000e-004	0.0127	2.8200e-003	0.0155	3.6200e-003	2.5900e-003	6.2100e-003	0.0000	41.1407	41.1407	3.3000e-004	0.0000	41.1476
Worker	0.0178	0.0245	0.2455	5.9000e-004	0.0449	4.1000e-004	0.0453	0.0119	3.8000e-004	0.0123	0.0000	44.7513	44.7513	2.3700e-003	0.0000	44.8011
<b>Total</b>	<b>0.0463</b>	<b>0.2199</b>	<b>0.6097</b>	<b>1.0500e-003</b>	<b>0.0576</b>	<b>3.2300e-003</b>	<b>0.0608</b>	<b>0.0156</b>	<b>2.9700e-003</b>	<b>0.0185</b>	<b>0.0000</b>	<b>85.8921</b>	<b>85.8921</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>85.9487</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	8.9100e-003	0.0897	0.0607	9.0000e-005		5.6300e-003	5.6300e-003		5.1800e-003	5.1800e-003	0.0000	8.1867	8.1867	2.4200e-003	0.0000	8.2376
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.9100e-003</b>	<b>0.0897</b>	<b>0.0607</b>	<b>9.0000e-005</b>		<b>5.6300e-003</b>	<b>5.6300e-003</b>		<b>5.1800e-003</b>	<b>5.1800e-003</b>	<b>0.0000</b>	<b>8.1867</b>	<b>8.1867</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>8.2376</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	2.7000e-004	3.7000e-004	3.7200e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6781	0.6781	4.0000e-005	0.0000	0.6788
<b>Total</b>	<b>2.7000e-004</b>	<b>3.7000e-004</b>	<b>3.7200e-003</b>	<b>1.0000e-005</b>	<b>6.8000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>1.8000e-004</b>	<b>1.0000e-005</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.6781</b>	<b>0.6781</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6788</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	8.9100e-003	0.0897	0.0607	9.0000e-005		5.6300e-003	5.6300e-003		5.1800e-003	5.1800e-003	0.0000	8.1867	8.1867	2.4200e-003	0.0000	8.2376
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.9100e-003</b>	<b>0.0897</b>	<b>0.0607</b>	<b>9.0000e-005</b>		<b>5.6300e-003</b>	<b>5.6300e-003</b>		<b>5.1800e-003</b>	<b>5.1800e-003</b>	<b>0.0000</b>	<b>8.1867</b>	<b>8.1867</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>8.2376</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	2.7000e-004	3.7000e-004	3.7200e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6781	0.6781	4.0000e-005	0.0000	0.6788
<b>Total</b>	<b>2.7000e-004</b>	<b>3.7000e-004</b>	<b>3.7200e-003</b>	<b>1.0000e-005</b>	<b>6.8000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>1.8000e-004</b>	<b>1.0000e-005</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.6781</b>	<b>0.6781</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6788</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	0.2501					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7000e-004	2.3700e-003	1.8800e-003	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.2553	0.2553	3.0000e-005	0.0000	0.2560
<b>Total</b>	<b>0.2505</b>	<b>2.3700e-003</b>	<b>1.8800e-003</b>	<b>0.0000</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.2553</b>	<b>0.2553</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.2560</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
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	4.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0814	0.0814	0.0000	0.0000	0.0815
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.5000e-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>0.0814</b>	<b>0.0814</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0815</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	0.2501					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7000e-004	2.3700e-003	1.8800e-003	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.2553	0.2553	3.0000e-005	0.0000	0.2560
<b>Total</b>	<b>0.2505</b>	<b>2.3700e-003</b>	<b>1.8800e-003</b>	<b>0.0000</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.2553</b>	<b>0.2553</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.2560</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	4.0000e-005	4.5000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0814	0.0814	0.0000	0.0000	0.0815
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.5000e-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>0.0814</b>	<b>0.0814</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0815</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	8.7400e-003	7.4700e-003	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	1.0213	1.0213	1.1000e-004	0.0000	1.0236
<b>Total</b>	<b>1.0016</b>	<b>8.7400e-003</b>	<b>7.4700e-003</b>	<b>1.0000e-005</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>1.0213</b>	<b>1.0213</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.0236</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.2000e-004	1.6000e-004	1.6100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3130	0.3130	2.0000e-005	0.0000	0.3134	
<b>Total</b>	<b>1.2000e-004</b>	<b>1.6000e-004</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.3130</b>	<b>0.3130</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3134</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	1.0003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	8.7400e-003	7.4700e-003	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	1.0213	1.0213	1.1000e-004	0.0000	1.0236
<b>Total</b>	<b>1.0016</b>	<b>8.7400e-003</b>	<b>7.4700e-003</b>	<b>1.0000e-005</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>1.0213</b>	<b>1.0213</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.0236</b>

### 3.7 Architectural Coating - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.2000e-004	1.6000e-004	1.6100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3130	0.3130	2.0000e-005	0.0000	0.3134
<b>Total</b>	<b>1.2000e-004</b>	<b>1.6000e-004</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.3130</b>	<b>0.3130</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3134</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	5.0858	6.5443	59.5761	0.4405	0.6827	0.0766	0.7593	0.1982	0.0766	0.2748	0.0000	1,066.6871	1,066.6871	0.3419	0.0000	1,073.8666
Unmitigated	5.0858	6.5443	59.5761	0.4405	0.6827	0.0766	0.7593	0.1982	0.0766	0.2748	0.0000	1,066.6871	1,066.6871	0.3419	0.0000	1,073.8666

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	800.04	800.04	800.04	2,031,743	2,031,743
Total	800.04	800.04	800.04	2,031,743	2,031,743

**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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

**5.0 Energy Detail**

~~4.4 Fleet Mix~~

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	323.6482	323.6482	0.0146	3.0300e-003	324.8941
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	323.6482	323.6482	0.0146	3.0300e-003	324.8941
NaturalGas Mitigated	0.0158	0.1436	0.1206	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.3401	156.3401	3.0000e-003	2.8700e-003	157.2915
NaturalGas Unmitigated	0.0158	0.1436	0.1206	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.3401	156.3401	3.0000e-003	2.8700e-003	157.2915

**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					
Junior College (2Yr)	2.9297e+006	0.0158	0.1436	0.1206	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.3401	156.3401	3.0000e-003	2.8700e-003	157.2915
<b>Total</b>		<b>0.0158</b>	<b>0.1436</b>	<b>0.1206</b>	<b>8.6000e-004</b>		<b>0.0109</b>	<b>0.0109</b>		<b>0.0109</b>	<b>0.0109</b>	<b>0.0000</b>	<b>156.3401</b>	<b>156.3401</b>	<b>3.0000e-003</b>	<b>2.8700e-003</b>	<b>157.2915</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					
Junior College (2Yr)	2.9297e+006	0.0158	0.1436	0.1206	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.3401	156.3401	3.0000e-003	2.8700e-003	157.2915
<b>Total</b>		<b>0.0158</b>	<b>0.1436</b>	<b>0.1206</b>	<b>8.6000e-004</b>		<b>0.0109</b>	<b>0.0109</b>		<b>0.0109</b>	<b>0.0109</b>	<b>0.0000</b>	<b>156.3401</b>	<b>156.3401</b>	<b>3.0000e-003</b>	<b>2.8700e-003</b>	<b>157.2915</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	1.11253e+006	323.6482	0.0146	3.0300e-003	324.8941
<b>Total</b>		<b>323.6482</b>	<b>0.0146</b>	<b>3.0300e-003</b>	<b>324.8941</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	1.11253e+006	323.6482	0.0146	3.0300e-003	324.8941
<b>Total</b>		<b>323.6482</b>	<b>0.0146</b>	<b>3.0300e-003</b>	<b>324.8941</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	0.5469	1.0000e-005	3.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	1.9300e-003	1.9300e-003	4.0000e-005	0.0000	2.6900e-003
Unmitigated	0.5469	1.0000e-005	3.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	1.9300e-003	1.9300e-003	4.0000e-005	0.0000	2.6900e-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	0.1250					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4214					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3000e-004	1.0000e-005	3.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	1.9300e-003	1.9300e-003	4.0000e-005	0.0000	2.6900e-003
<b>Total</b>	<b>0.5469</b>	<b>1.0000e-005</b>	<b>3.2400e-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>0.0000</b>	<b>1.9300e-003</b>	<b>1.9300e-003</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.6900e-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	0.1250					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4214					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3000e-004	1.0000e-005	3.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	1.9300e-003	1.9300e-003	4.0000e-005	0.0000	2.6900e-003
<b>Total</b>	<b>0.5469</b>	<b>1.0000e-005</b>	<b>3.2400e-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>0.0000</b>	<b>1.9300e-003</b>	<b>1.9300e-003</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.6900e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	18.4400	0.1732	4.2200e-003	23.3861
Unmitigated	18.4400	0.1732	4.2300e-003	23.3888

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	5.29288 / 8.27861	18.4400	0.1732	4.2300e-003	23.3888
<b>Total</b>		<b>18.4400</b>	<b>0.1732</b>	<b>4.2300e-003</b>	<b>23.3888</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	5.29288 / 8.27861	18.4400	0.1732	4.2200e-003	23.3861
<b>Total</b>		<b>18.4400</b>	<b>0.1732</b>	<b>4.2200e-003</b>	<b>23.3861</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	28.4756	1.6829	0.0000	63.8156
Unmitigated	28.4756	1.6829	0.0000	63.8156

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	140.28	28.4756	1.6829	0.0000	63.8156
<b>Total</b>		<b>28.4756</b>	<b>1.6829</b>	<b>0.0000</b>	<b>63.8156</b>

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	140.28	28.4756	1.6829	0.0000	63.8156
<b>Total</b>		<b>28.4756</b>	<b>1.6829</b>	<b>0.0000</b>	<b>63.8156</b>

### 9.0 Operational Offroad

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

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**AAU Existing Site 9**  
**San Francisco County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	27.00	Dwelling Unit	0.71	27,000.00	47

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fireplaces or wood stoves.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	14,850.00	8,890.00
tblArchitecturalCoating	ConstArea_Residential_Interior	44,550.00	26,671.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	12.10	0.00
tblFireplaces	NumberNoFireplace	6.82	0.00
tblFireplaces	NumberWood	3.08	0.00
tblLandUse	Population	77.00	47.00
tblProjectCharacteristics	OperationalYear	2014	1990
tblSolidWaste	SolidWasteGenerationRate	10.12	6.06
tblTripsAndVMT	VendorTripNumber	2.00	1.00
tblTripsAndVMT	WorkerTripNumber	16.00	9.00
tblTripsAndVMT	WorkerTripNumber	3.00	2.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	1,433,388.56	858,078.52
tblWater	OutdoorWaterUseRate	903,658.01	540,962.54
tblWoodstoves	NumberCatalytic	0.11	0.00
tblWoodstoves	NumberNoncatalytic	0.11	0.00

## 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	0.1633	3.0500e-003	0.4520	1.6000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.3275	0.3275	2.3200e-003	0.0000	0.3763
Energy	1.0300e-003	8.7800e-003	3.7400e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	37.9505	37.9505	1.4500e-003	4.5000e-004	38.1193
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	1.2301	0.0000	1.2301	0.0727	0.0000	2.7568
Water						0.0000	0.0000		0.0000	0.0000	0.2722	1.9015	2.1738	0.0281	6.8000e-004	2.9729
<b>Total</b>	<b>0.1643</b>	<b>0.0118</b>	<b>0.4558</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.2100e-003</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>1.2100e-003</b>	<b>1.2100e-003</b>	<b>1.5024</b>	<b>40.1795</b>	<b>41.6819</b>	<b>0.1045</b>	<b>1.1300e-003</b>	<b>44.2253</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	0.1633	3.0500e-003	0.4520	1.6000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.3275	0.3275	2.3200e-003	0.0000	0.3763
Energy	1.0300e-003	8.7800e-003	3.7400e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	37.9505	37.9505	1.4500e-003	4.5000e-004	38.1193
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	1.2301	0.0000	1.2301	0.0727	0.0000	2.7568
Water						0.0000	0.0000		0.0000	0.0000	0.2722	1.9015	2.1738	0.0280	6.8000e-004	2.9725
<b>Total</b>	<b>0.1643</b>	<b>0.0118</b>	<b>0.4558</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.2100e-003</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>1.2100e-003</b>	<b>1.2100e-003</b>	<b>1.5024</b>	<b>40.1795</b>	<b>41.6819</b>	<b>0.1045</b>	<b>1.1300e-003</b>	<b>44.2249</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	0.01	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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 26,671; Residential Outdoor: 8,890; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	9.00	1.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>

### 3.2 Demolition - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>

### 3.3 Site Preparation - 2016

#### 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.4 Grading - 2016

#### 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4584</b>	<b>53.4584</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7970</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	7.2000e-004	4.9300e-003	9.2000e-003	1.0000e-005	3.2000e-004	7.0000e-005	3.9000e-004	9.0000e-005	7.0000e-005	1.6000e-004	0.0000	1.0389	1.0389	1.0000e-005	0.0000	1.0391
Worker	1.6200e-003	2.2300e-003	0.0223	5.0000e-005	4.0800e-003	4.0000e-005	4.1200e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	4.0683	4.0683	2.2000e-004	0.0000	4.0728
<b>Total</b>	<b>2.3400e-003</b>	<b>7.1600e-003</b>	<b>0.0315</b>	<b>6.0000e-005</b>	<b>4.4000e-003</b>	<b>1.1000e-004</b>	<b>4.5100e-003</b>	<b>1.1800e-003</b>	<b>1.0000e-004</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>5.1072</b>	<b>5.1072</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>5.1119</b>

### 3.5 Building Construction - 2016

#### 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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4583</b>	<b>53.4583</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7969</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	7.2000e-004	4.9300e-003	9.2000e-003	1.0000e-005	3.2000e-004	7.0000e-005	3.9000e-004	9.0000e-005	7.0000e-005	1.6000e-004	0.0000	1.0389	1.0389	1.0000e-005	0.0000	1.0391
Worker	1.6200e-003	2.2300e-003	0.0223	5.0000e-005	4.0800e-003	4.0000e-005	4.1200e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	4.0683	4.0683	2.2000e-004	0.0000	4.0728
<b>Total</b>	<b>2.3400e-003</b>	<b>7.1600e-003</b>	<b>0.0315</b>	<b>6.0000e-005</b>	<b>4.4000e-003</b>	<b>1.1000e-004</b>	<b>4.5100e-003</b>	<b>1.1800e-003</b>	<b>1.0000e-004</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>5.1072</b>	<b>5.1072</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>5.1119</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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>

### 3.6 Paving - 2016

#### 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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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	0.2060					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>0.2070</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</b>

### 3.7 Architectural Coating - 2016

#### 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	0.2060					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>0.2070</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 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	27.7844	27.7844	1.2600e-003	2.6000e-004	27.8914
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	27.7844	27.7844	1.2600e-003	2.6000e-004	27.8914
NaturalGas Mitigated	1.0300e-003	8.7800e-003	3.7400e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1661	10.1661	1.9000e-004	1.9000e-004	10.2280
NaturalGas Unmitigated	1.0300e-003	8.7800e-003	3.7400e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1661	10.1661	1.9000e-004	1.9000e-004	10.2280

### 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					
Apartments Mid Rise	190505	1.0300e-003	8.7800e-003	3.7400e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1661	10.1661	1.9000e-004	1.9000e-004	10.2280
<b>Total</b>		<b>1.0300e-003</b>	<b>8.7800e-003</b>	<b>3.7400e-003</b>	<b>6.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>10.1661</b>	<b>10.1661</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>10.2280</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					
Apartments Mid Rise	190505	1.0300e-003	8.7800e-003	3.7400e-003	6.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	10.1661	10.1661	1.9000e-004	1.9000e-004	10.2280
<b>Total</b>		<b>1.0300e-003</b>	<b>8.7800e-003</b>	<b>3.7400e-003</b>	<b>6.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>10.1661</b>	<b>10.1661</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>10.2280</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	95508.2	27.7844	1.2600e-003	2.6000e-004	27.8914
<b>Total</b>		<b>27.7844</b>	<b>1.2600e-003</b>	<b>2.6000e-004</b>	<b>27.8914</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	95508.2	27.7844	1.2600e-003	2.6000e-004	27.8914
<b>Total</b>		<b>27.7844</b>	<b>1.2600e-003</b>	<b>2.6000e-004</b>	<b>27.8914</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	0.1633	3.0500e-003	0.4520	1.6000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.3275	0.3275	2.3200e-003	0.0000	0.3763
Unmitigated	0.1633	3.0500e-003	0.4520	1.6000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.3275	0.3275	2.3200e-003	0.0000	0.3763

### 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	0.0344					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0234	3.0500e-003	0.4520	1.6000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.3275	0.3275	2.3200e-003	0.0000	0.3763
<b>Total</b>	<b>0.1633</b>	<b>3.0500e-003</b>	<b>0.4520</b>	<b>1.6000e-004</b>		<b>5.0000e-004</b>	<b>5.0000e-004</b>		<b>5.0000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>0.3275</b>	<b>0.3275</b>	<b>2.3200e-003</b>	<b>0.0000</b>	<b>0.3763</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	0.0344					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0234	3.0500e-003	0.4520	1.6000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	0.3275	0.3275	2.3200e-003	0.0000	0.3763
<b>Total</b>	<b>0.1633</b>	<b>3.0500e-003</b>	<b>0.4520</b>	<b>1.6000e-004</b>		<b>5.0000e-004</b>	<b>5.0000e-004</b>		<b>5.0000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>0.3275</b>	<b>0.3275</b>	<b>2.3200e-003</b>	<b>0.0000</b>	<b>0.3763</b>

### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.1738	0.0280	6.8000e-004	2.9725
Unmitigated	2.1738	0.0281	6.8000e-004	2.9729

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0.858079 / 0.540963	2.1738	0.0281	6.8000e-004	2.9729
<b>Total</b>		<b>2.1738</b>	<b>0.0281</b>	<b>6.8000e-004</b>	<b>2.9729</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0.858079 / 0.540963	2.1738	0.0280	6.8000e-004	2.9725
<b>Total</b>		<b>2.1738</b>	<b>0.0280</b>	<b>6.8000e-004</b>	<b>2.9725</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.2301	0.0727	0.0000	2.7568
Unmitigated	1.2301	0.0727	0.0000	2.7568

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	6.06	1.2301	0.0727	0.0000	2.7568
<b>Total</b>		<b>1.2301</b>	<b>0.0727</b>	<b>0.0000</b>	<b>2.7568</b>



## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	6.06	1.2301	0.0727	0.0000	2.7568
<b>Total</b>		<b>1.2301</b>	<b>0.0727</b>	<b>0.0000</b>	<b>2.7568</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 11**  
**San Francisco County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	15.00	Dwelling Unit	0.39	15,000.00	37

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 - Population adjusted according to information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fireplaces or wood burning stoves.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	10,125.00	7,058.00
tblArchitecturalCoating	ConstArea_Residential_Interior	30,375.00	21,173.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	8.25	0.00
tblFireplaces	NumberNoFireplace	4.65	0.00
tblFireplaces	NumberWood	2.10	0.00
tblLandUse	Population	43.00	37.00
tblProjectCharacteristics	OperationalYear	2014	1990
tblSolidWaste	SolidWasteGenerationRate	6.90	4.81
tblTripsAndVMT	VendorTripNumber	2.00	1.00
tblTripsAndVMT	WorkerTripNumber	11.00	8.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	977,310.38	681,511.11
tblWater	OutdoorWaterUseRate	616,130.46	429,648.31
tblWoodstoves	NumberCatalytic	0.08	0.00
tblWoodstoves	NumberNoncatalytic	0.08	0.00

## 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	0.0950	1.6900e-003	0.2511	9.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.1819	0.1819	1.2900e-003	0.0000	0.2091
Energy	5.7000e-004	4.8800e-003	2.0800e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	21.0836	21.0836	8.1000e-004	2.5000e-004	21.1774
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	0.9764	0.0000	0.9764	0.0577	0.0000	2.1882
Water						0.0000	0.0000		0.0000	0.0000	0.2162	1.5103	1.7265	0.0223	5.4000e-004	2.3612
<b>Total</b>	<b>0.0956</b>	<b>6.5700e-003</b>	<b>0.2532</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>6.7000e-004</b>	<b>1.1926</b>	<b>22.7758</b>	<b>23.9684</b>	<b>0.0821</b>	<b>7.9000e-004</b>	<b>25.9358</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	0.0950	1.6900e-003	0.2511	9.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.1819	0.1819	1.2900e-003	0.0000	0.2091
Energy	5.7000e-004	4.8800e-003	2.0800e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	21.0836	21.0836	8.1000e-004	2.5000e-004	21.1774
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	0.9764	0.0000	0.9764	0.0577	0.0000	2.1882
Water						0.0000	0.0000		0.0000	0.0000	0.2162	1.5103	1.7265	0.0223	5.4000e-004	2.3608
<b>Total</b>	<b>0.0956</b>	<b>6.5700e-003</b>	<b>0.2532</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>6.7000e-004</b>	<b>6.7000e-004</b>	<b>1.1926</b>	<b>22.7758</b>	<b>23.9684</b>	<b>0.0821</b>	<b>7.9000e-004</b>	<b>25.9354</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	0.01	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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 21,173; Residential Outdoor: 7,058; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	8.00	1.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT



### 3.1 Mitigation Measures Construction

### 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					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>

### 3.2 Demolition - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>

### 3.3 Site Preparation - 2016

#### 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.4 Grading - 2016

#### 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4584</b>	<b>53.4584</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7970</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	7.2000e-004	4.9300e-003	9.2000e-003	1.0000e-005	3.2000e-004	7.0000e-005	3.9000e-004	9.0000e-005	7.0000e-005	1.6000e-004	0.0000	1.0389	1.0389	1.0000e-005	0.0000	1.0391
Worker	1.4400e-003	1.9800e-003	0.0198	5.0000e-005	3.6300e-003	3.0000e-005	3.6600e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	3.6163	3.6163	1.9000e-004	0.0000	3.6203
<b>Total</b>	<b>2.1600e-003</b>	<b>6.9100e-003</b>	<b>0.0290</b>	<b>6.0000e-005</b>	<b>3.9500e-003</b>	<b>1.0000e-004</b>	<b>4.0500e-003</b>	<b>1.0600e-003</b>	<b>1.0000e-004</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>4.6552</b>	<b>4.6552</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>4.6594</b>

### 3.5 Building Construction - 2016

#### 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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4583</b>	<b>53.4583</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7969</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	7.2000e-004	4.9300e-003	9.2000e-003	1.0000e-005	3.2000e-004	7.0000e-005	3.9000e-004	9.0000e-005	7.0000e-005	1.6000e-004	0.0000	1.0389	1.0389	1.0000e-005	0.0000	1.0391
Worker	1.4400e-003	1.9800e-003	0.0198	5.0000e-005	3.6300e-003	3.0000e-005	3.6600e-003	9.7000e-004	3.0000e-005	1.0000e-003	0.0000	3.6163	3.6163	1.9000e-004	0.0000	3.6203
<b>Total</b>	<b>2.1600e-003</b>	<b>6.9100e-003</b>	<b>0.0290</b>	<b>6.0000e-005</b>	<b>3.9500e-003</b>	<b>1.0000e-004</b>	<b>4.0500e-003</b>	<b>1.0600e-003</b>	<b>1.0000e-004</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>4.6552</b>	<b>4.6552</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>4.6594</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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>

### 3.6 Paving - 2016

#### 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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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	0.1636					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>0.1645</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</b>

### 3.7 Architectural Coating - 2016

#### 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	0.1636					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>0.1645</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 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	15.4358	15.4358	7.0000e-004	1.4000e-004	15.4952
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	15.4358	15.4358	7.0000e-004	1.4000e-004	15.4952
NaturalGas Mitigated	5.7000e-004	4.8800e-003	2.0800e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6478	5.6478	1.1000e-004	1.0000e-004	5.6822
NaturalGas Unmitigated	5.7000e-004	4.8800e-003	2.0800e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6478	5.6478	1.1000e-004	1.0000e-004	5.6822

### 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					
Apartments Mid Rise	105836	5.7000e-004	4.8800e-003	2.0800e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6478	5.6478	1.1000e-004	1.0000e-004	5.6822
<b>Total</b>		<b>5.7000e-004</b>	<b>4.8800e-003</b>	<b>2.0800e-003</b>	<b>3.0000e-005</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.6478</b>	<b>5.6478</b>	<b>1.1000e-004</b>	<b>1.0000e-004</b>	<b>5.6822</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					
Apartments Mid Rise	105836	5.7000e-004	4.8800e-003	2.0800e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6478	5.6478	1.1000e-004	1.0000e-004	5.6822
<b>Total</b>		<b>5.7000e-004</b>	<b>4.8800e-003</b>	<b>2.0800e-003</b>	<b>3.0000e-005</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.6478</b>	<b>5.6478</b>	<b>1.1000e-004</b>	<b>1.0000e-004</b>	<b>5.6822</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	53060.1	15.4358	7.0000e-004	1.4000e-004	15.4952
<b>Total</b>		<b>15.4358</b>	<b>7.0000e-004</b>	<b>1.4000e-004</b>	<b>15.4952</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	53060.1	15.4358	7.0000e-004	1.4000e-004	15.4952
<b>Total</b>		<b>15.4358</b>	<b>7.0000e-004</b>	<b>1.4000e-004</b>	<b>15.4952</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	0.0950	1.6900e-003	0.2511	9.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.1819	0.1819	1.2900e-003	0.0000	0.2091
Unmitigated	0.0950	1.6900e-003	0.2511	9.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.1819	0.1819	1.2900e-003	0.0000	0.2091



## 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	0.0235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0586					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0130	1.6900e-003	0.2511	9.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.1819	0.1819	1.2900e-003	0.0000	0.2091
<b>Total</b>	<b>0.0950</b>	<b>1.6900e-003</b>	<b>0.2511</b>	<b>9.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.1819</b>	<b>0.1819</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>0.2091</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	0.0235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0586					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0130	1.6900e-003	0.2511	9.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.1819	0.1819	1.2900e-003	0.0000	0.2091
<b>Total</b>	<b>0.0950</b>	<b>1.6900e-003</b>	<b>0.2511</b>	<b>9.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.1819</b>	<b>0.1819</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>0.2091</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.7265	0.0223	5.4000e-004	2.3608
Unmitigated	1.7265	0.0223	5.4000e-004	2.3612

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0.681511 / 0.429648	1.7265	0.0223	5.4000e-004	2.3612
<b>Total</b>		<b>1.7265</b>	<b>0.0223</b>	<b>5.4000e-004</b>	<b>2.3612</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0.681511 / 0.429648	1.7265	0.0223	5.4000e-004	2.3608
<b>Total</b>		<b>1.7265</b>	<b>0.0223</b>	<b>5.4000e-004</b>	<b>2.3608</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.9764	0.0577	0.0000	2.1882
Unmitigated	0.9764	0.0577	0.0000	2.1882

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	4.81	0.9764	0.0577	0.0000	2.1882
<b>Total</b>		<b>0.9764</b>	<b>0.0577</b>	<b>0.0000</b>	<b>2.1882</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	4.81	0.9764	0.0577	0.0000	2.1882
<b>Total</b>		<b>0.9764</b>	<b>0.0577</b>	<b>0.0000</b>	<b>2.1882</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 12**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	42.00	Dwelling Unit	1.11	42,000.00	122

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Population adjusted according to updated information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fire places or wood burning stoves.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	28,350.00	16,556.00
tblArchitecturalCoating	ConstArea_Residential_Interior	85,050.00	49,669.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00

tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	200.00	100.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	4.00	2.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	2.00	1.00
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	23.10	0.00
tblFireplaces	NumberNoFireplace	13.02	0.00
tblFireplaces	NumberWood	5.88	0.00
tblLandUse	Population	120.00	122.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00

tblProjectCharacteristics	OperationalYear	2014	1990
tblSolidWaste	SolidWasteGenerationRate	19.32	11.28
tblTripsAndVMT	VendorTripNumber	4.00	3.00
tblTripsAndVMT	WorkerTripNumber	30.00	18.00
tblTripsAndVMT	WorkerTripNumber	6.00	4.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	2,736,469.08	1,598,228.25
tblWater	OutdoorWaterUseRate	1,725,165.29	1,007,578.68
tblWoodstoves	NumberCatalytic	0.21	0.00
tblWoodstoves	NumberNoncatalytic	0.21	0.00

## 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	0.2661	4.7500e-003	0.7032	2.5000e-004		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	0.5094	0.5094	3.6200e-003	0.0000	0.5853
Energy	1.6000e-003	0.0137	5.8100e-003	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	59.0341	59.0341	2.2600e-003	6.9000e-004	59.2968
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	2.2897	0.0000	2.2897	0.1353	0.0000	5.1315
Water						0.0000	0.0000		0.0000	0.0000	0.5070	3.5417	4.0488	0.0522	1.2600e-003	5.5372
<b>Total</b>	<b>0.2677</b>	<b>0.0184</b>	<b>0.7090</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.8800e-003</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>1.8800e-003</b>	<b>1.8800e-003</b>	<b>2.7968</b>	<b>63.0853</b>	<b>65.8820</b>	<b>0.1934</b>	<b>1.9500e-003</b>	<b>70.5508</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	0.2661	4.7500e-003	0.7032	2.5000e-004		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	0.5094	0.5094	3.6200e-003	0.0000	0.5853
Energy	1.6000e-003	0.0137	5.8100e-003	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	59.0341	59.0341	2.2600e-003	6.9000e-004	59.2968
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	2.2897	0.0000	2.2897	0.1353	0.0000	5.1315
Water						0.0000	0.0000		0.0000	0.0000	0.5070	3.5417	4.0488	0.0522	1.2600e-003	5.5364
<b>Total</b>	<b>0.2677</b>	<b>0.0184</b>	<b>0.7090</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.8800e-003</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>1.8800e-003</b>	<b>1.8800e-003</b>	<b>2.7968</b>	<b>63.0853</b>	<b>65.8820</b>	<b>0.1934</b>	<b>1.9500e-003</b>	<b>70.5500</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	0.01	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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 49,669; Residential Outdoor: 16,556; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	18.00	3.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>

### 3.2 Demolition - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>



### 3.3 Site Preparation - 2016

#### 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.4 Grading - 2016

#### 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4584</b>	<b>53.4584</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7970</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.1500e-003	0.0148	0.0276	3.0000e-005	9.6000e-004	2.1000e-004	1.1700e-003	2.7000e-004	2.0000e-004	4.7000e-004	0.0000	3.1167	3.1167	2.0000e-005	0.0000	3.1172
Worker	3.2400e-003	4.4500e-003	0.0446	1.1000e-004	8.1600e-003	7.0000e-005	8.2400e-003	2.1700e-003	7.0000e-005	2.2400e-003	0.0000	8.1366	8.1366	4.3000e-004	0.0000	8.1457
<b>Total</b>	<b>5.3900e-003</b>	<b>0.0193</b>	<b>0.0722</b>	<b>1.4000e-004</b>	<b>9.1200e-003</b>	<b>2.8000e-004</b>	<b>9.4100e-003</b>	<b>2.4400e-003</b>	<b>2.7000e-004</b>	<b>2.7100e-003</b>	<b>0.0000</b>	<b>11.2533</b>	<b>11.2533</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>11.2629</b>

### 3.5 Building Construction - 2016

#### 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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4583</b>	<b>53.4583</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7969</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.1500e-003	0.0148	0.0276	3.0000e-005	9.6000e-004	2.1000e-004	1.1700e-003	2.7000e-004	2.0000e-004	4.7000e-004	0.0000	3.1167	3.1167	2.0000e-005	0.0000	3.1172
Worker	3.2400e-003	4.4500e-003	0.0446	1.1000e-004	8.1600e-003	7.0000e-005	8.2400e-003	2.1700e-003	7.0000e-005	2.2400e-003	0.0000	8.1366	8.1366	4.3000e-004	0.0000	8.1457
<b>Total</b>	<b>5.3900e-003</b>	<b>0.0193</b>	<b>0.0722</b>	<b>1.4000e-004</b>	<b>9.1200e-003</b>	<b>2.8000e-004</b>	<b>9.4100e-003</b>	<b>2.4400e-003</b>	<b>2.7000e-004</b>	<b>2.7100e-003</b>	<b>0.0000</b>	<b>11.2533</b>	<b>11.2533</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>11.2629</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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>

### 3.6 Paving - 2016

#### 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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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	0.3837					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>0.3846</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>

#### 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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>



### 3.7 Architectural Coating - 2016

#### 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	0.3837					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>0.3846</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>

#### 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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 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	43.2202	43.2202	1.9500e-003	4.0000e-004	43.3866
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	43.2202	43.2202	1.9500e-003	4.0000e-004	43.3866
NaturalGas Mitigated	1.6000e-003	0.0137	5.8100e-003	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.8139	15.8139	3.0000e-004	2.9000e-004	15.9102
NaturalGas Unmitigated	1.6000e-003	0.0137	5.8100e-003	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.8139	15.8139	3.0000e-004	2.9000e-004	15.9102

### 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					
Apartments Mid Rise	296342	1.6000e-003	0.0137	5.8100e-003	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.8139	15.8139	3.0000e-004	2.9000e-004	15.9102
<b>Total</b>		<b>1.6000e-003</b>	<b>0.0137</b>	<b>5.8100e-003</b>	<b>9.0000e-005</b>		<b>1.1000e-003</b>	<b>1.1000e-003</b>		<b>1.1000e-003</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>15.8139</b>	<b>15.8139</b>	<b>3.0000e-004</b>	<b>2.9000e-004</b>	<b>15.9102</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					
Apartments Mid Rise	296342	1.6000e-003	0.0137	5.8100e-003	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.8139	15.8139	3.0000e-004	2.9000e-004	15.9102
<b>Total</b>		<b>1.6000e-003</b>	<b>0.0137</b>	<b>5.8100e-003</b>	<b>9.0000e-005</b>		<b>1.1000e-003</b>	<b>1.1000e-003</b>		<b>1.1000e-003</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>15.8139</b>	<b>15.8139</b>	<b>3.0000e-004</b>	<b>2.9000e-004</b>	<b>15.9102</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	148568	43.2202	1.9500e-003	4.0000e-004	43.3866
<b>Total</b>		<b>43.2202</b>	<b>1.9500e-003</b>	<b>4.0000e-004</b>	<b>43.3866</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	148568	43.2202	1.9500e-003	4.0000e-004	43.3866
<b>Total</b>		<b>43.2202</b>	<b>1.9500e-003</b>	<b>4.0000e-004</b>	<b>43.3866</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	0.2661	4.7500e-003	0.7032	2.5000e-004		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	0.5094	0.5094	3.6200e-003	0.0000	0.5853
Unmitigated	0.2661	4.7500e-003	0.7032	2.5000e-004		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	0.5094	0.5094	3.6200e-003	0.0000	0.5853

### 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	0.0657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1640					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0364	4.7500e-003	0.7032	2.5000e-004		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	0.5094	0.5094	3.6200e-003	0.0000	0.5853
<b>Total</b>	<b>0.2661</b>	<b>4.7500e-003</b>	<b>0.7032</b>	<b>2.5000e-004</b>		<b>7.8000e-004</b>	<b>7.8000e-004</b>		<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>0.5094</b>	<b>0.5094</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>0.5853</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	0.0657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1640					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0364	4.7500e-003	0.7032	2.5000e-004		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	0.5094	0.5094	3.6200e-003	0.0000	0.5853
<b>Total</b>	<b>0.2661</b>	<b>4.7500e-003</b>	<b>0.7032</b>	<b>2.5000e-004</b>		<b>7.8000e-004</b>	<b>7.8000e-004</b>		<b>7.8000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>0.5094</b>	<b>0.5094</b>	<b>3.6200e-003</b>	<b>0.0000</b>	<b>0.5853</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.0488	0.0522	1.2600e-003	5.5364
Unmitigated	4.0488	0.0522	1.2600e-003	5.5372

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.59823 / 1.00758	4.0488	0.0522	1.2600e-003	5.5372
<b>Total</b>		<b>4.0488</b>	<b>0.0522</b>	<b>1.2600e-003</b>	<b>5.5372</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.59823 / 1.00758	4.0488	0.0522	1.2600e-003	5.5364
<b>Total</b>		<b>4.0488</b>	<b>0.0522</b>	<b>1.2600e-003</b>	<b>5.5364</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste



**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.2897	0.1353	0.0000	5.1315
Unmitigated	2.2897	0.1353	0.0000	5.1315

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	11.28	2.2897	0.1353	0.0000	5.1315
<b>Total</b>		<b>2.2897</b>	<b>0.1353</b>	<b>0.0000</b>	<b>5.1315</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	11.28	2.2897	0.1353	0.0000	5.1315
<b>Total</b>		<b>2.2897</b>	<b>0.1353</b>	<b>0.0000</b>	<b>5.1315</b>

## 9.0 Operational Offroad

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

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## AAU Existing Site 13 San Francisco County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	87.00	Dwelling Unit	2.29	87,000.00	184

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2000
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assume no fireplaces or wood burning stoves.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	60,075.00	23,822.00
tblArchitecturalCoating	ConstArea_Residential_Interior	180,225.00	71,466.00

tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	220.00	100.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	6.00	2.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	3.00	1.00
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	48.95	0.00
tblFireplaces	NumberNoFireplace	27.59	0.00
tblFireplaces	NumberWood	12.46	0.00
tblLandUse	Population	249.00	184.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2000
tblSolidWaste	SolidWasteGenerationRate	40.94	16.23
tblTripsAndVMT	VendorTripNumber	10.00	4.00
tblTripsAndVMT	WorkerTripNumber	64.00	25.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWater	IndoorWaterUseRate	5,798,708.28	2,299,285.56
tblWater	OutdoorWaterUseRate	3,655,707.39	1,449,549.59
tblWoodstoves	NumberCatalytic	0.45	0.00
tblWoodstoves	NumberNoncatalytic	0.45	0.00

## 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	0.5290	8.3400e-003	0.9630	5.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	1.0552	1.0552	2.5300e-003	0.0000	1.1083
Energy	3.3100e-003	0.0283	0.0120	1.8000e-004		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003	0.0000	122.2850	122.2850	4.6800e-003	1.4400e-003	122.8290
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	3.2945	0.0000	3.2945	0.1947	0.0000	7.3833
Water						0.0000	0.0000		0.0000	0.0000	0.7295	5.0953	5.8247	0.0752	1.8200e-003	7.9661
<b>Total</b>	<b>0.5323</b>	<b>0.0366</b>	<b>0.9751</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>5.2100e-003</b>	<b>5.2100e-003</b>	<b>0.0000</b>	<b>5.2100e-003</b>	<b>5.2100e-003</b>	<b>4.0240</b>	<b>128.4355</b>	<b>132.4595</b>	<b>0.2771</b>	<b>3.2600e-003</b>	<b>139.2867</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	0.5290	8.3400e-003	0.9630	5.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	1.0552	1.0552	2.5300e-003	0.0000	1.1083
Energy	3.3100e-003	0.0283	0.0120	1.8000e-004		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003	0.0000	122.2850	122.2850	4.6800e-003	1.4400e-003	122.8290
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	3.2945	0.0000	3.2945	0.1947	0.0000	7.3833
Water						0.0000	0.0000		0.0000	0.0000	0.7295	5.0953	5.8247	0.0751	1.8100e-003	7.9650
<b>Total</b>	<b>0.5323</b>	<b>0.0366</b>	<b>0.9751</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>5.2100e-003</b>	<b>5.2100e-003</b>	<b>0.0000</b>	<b>5.2100e-003</b>	<b>5.2100e-003</b>	<b>4.0240</b>	<b>128.4355</b>	<b>132.4595</b>	<b>0.2771</b>	<b>3.2500e-003</b>	<b>139.2856</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	0.31	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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 71,466; Residential Outdoor: 23,822; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	25.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>

### 3.2 Demolition - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>

### 3.3 Site Preparation - 2016

#### 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.4 Grading - 2016

#### 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4584</b>	<b>53.4584</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7970</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.8700e-003	0.0197	0.0368	5.0000e-005	1.2800e-003	2.8000e-004	1.5600e-003	3.7000e-004	2.6000e-004	6.3000e-004	0.0000	4.1556	4.1556	3.0000e-005	0.0000	4.1563
Worker	4.5000e-003	6.1800e-003	0.0620	1.5000e-004	0.0113	1.0000e-004	0.0114	3.0200e-003	1.0000e-004	3.1100e-003	0.0000	11.3008	11.3008	6.0000e-004	0.0000	11.3134
<b>Total</b>	<b>7.3700e-003</b>	<b>0.0259</b>	<b>0.0988</b>	<b>2.0000e-004</b>	<b>0.0126</b>	<b>3.8000e-004</b>	<b>0.0130</b>	<b>3.3900e-003</b>	<b>3.6000e-004</b>	<b>3.7400e-003</b>	<b>0.0000</b>	<b>15.4565</b>	<b>15.4565</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>15.4697</b>

### 3.5 Building Construction - 2016

#### 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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4583</b>	<b>53.4583</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7969</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.8700e-003	0.0197	0.0368	5.0000e-005	1.2800e-003	2.8000e-004	1.5600e-003	3.7000e-004	2.6000e-004	6.3000e-004	0.0000	4.1556	4.1556	3.0000e-005	0.0000	4.1563
Worker	4.5000e-003	6.1800e-003	0.0620	1.5000e-004	0.0113	1.0000e-004	0.0114	3.0200e-003	1.0000e-004	3.1100e-003	0.0000	11.3008	11.3008	6.0000e-004	0.0000	11.3134
<b>Total</b>	<b>7.3700e-003</b>	<b>0.0259</b>	<b>0.0988</b>	<b>2.0000e-004</b>	<b>0.0126</b>	<b>3.8000e-004</b>	<b>0.0130</b>	<b>3.3900e-003</b>	<b>3.6000e-004</b>	<b>3.7400e-003</b>	<b>0.0000</b>	<b>15.4565</b>	<b>15.4565</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>15.4697</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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>

### 3.6 Paving - 2016

#### 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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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	0.5521					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>0.5530</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>

**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	5.0000e-005	6.0000e-005	6.2000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1130	0.1130	1.0000e-005	0.0000	0.1131
<b>Total</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1130</b>	<b>0.1130</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1131</b>

### 3.7 Architectural Coating - 2016

#### 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	0.5521					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>0.5530</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>

#### 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	5.0000e-005	6.0000e-005	6.2000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1130	0.1130	1.0000e-005	0.0000	0.1131
<b>Total</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1130</b>	<b>0.1130</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1131</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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.630142	0.126516	0.135380	0.044811	0.004048	0.008281	0.028653	0.003029	0.001699	0.010368	0.005318	0.000926	0.000829

### 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	89.5276	89.5276	4.0500e-003	8.4000e-004	89.8722
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	89.5276	89.5276	4.0500e-003	8.4000e-004	89.8722
NaturalGas Mitigated	3.3100e-003	0.0283	0.0120	1.8000e-004		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003	0.0000	32.7574	32.7574	6.3000e-004	6.0000e-004	32.9567
NaturalGas Unmitigated	3.3100e-003	0.0283	0.0120	1.8000e-004		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003	0.0000	32.7574	32.7574	6.3000e-004	6.0000e-004	32.9567

### 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					
Apartments Mid Rise	613850	3.3100e-003	0.0283	0.0120	1.8000e-004		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003	0.0000	32.7574	32.7574	6.3000e-004	6.0000e-004	32.9567
<b>Total</b>		<b>3.3100e-003</b>	<b>0.0283</b>	<b>0.0120</b>	<b>1.8000e-004</b>		<b>2.2900e-003</b>	<b>2.2900e-003</b>		<b>2.2900e-003</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>32.7574</b>	<b>32.7574</b>	<b>6.3000e-004</b>	<b>6.0000e-004</b>	<b>32.9567</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					
Apartments Mid Rise	613850	3.3100e-003	0.0283	0.0120	1.8000e-004		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003	0.0000	32.7574	32.7574	6.3000e-004	6.0000e-004	32.9567
<b>Total</b>		<b>3.3100e-003</b>	<b>0.0283</b>	<b>0.0120</b>	<b>1.8000e-004</b>		<b>2.2900e-003</b>	<b>2.2900e-003</b>		<b>2.2900e-003</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>32.7574</b>	<b>32.7574</b>	<b>6.3000e-004</b>	<b>6.0000e-004</b>	<b>32.9567</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	307749	89.5276	4.0500e-003	8.4000e-004	89.8722
<b>Total</b>		<b>89.5276</b>	<b>4.0500e-003</b>	<b>8.4000e-004</b>	<b>89.8722</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	307749	89.5276	4.0500e-003	8.4000e-004	89.8722
<b>Total</b>		<b>89.5276</b>	<b>4.0500e-003</b>	<b>8.4000e-004</b>	<b>89.8722</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	0.5290	8.3400e-003	0.9630	5.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	1.0552	1.0552	2.5300e-003	0.0000	1.1083
Unmitigated	0.5290	8.3400e-003	0.9630	5.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	1.0552	1.0552	2.5300e-003	0.0000	1.1083

### 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	0.1392					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3398					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0500	8.3400e-003	0.9630	5.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	1.0552	1.0552	2.5300e-003	0.0000	1.1083
<b>Total</b>	<b>0.5290</b>	<b>8.3400e-003</b>	<b>0.9630</b>	<b>5.0000e-005</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>1.0552</b>	<b>1.0552</b>	<b>2.5300e-003</b>	<b>0.0000</b>	<b>1.1083</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	0.1392					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3398					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0500	8.3400e-003	0.9630	5.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	1.0552	1.0552	2.5300e-003	0.0000	1.1083
<b>Total</b>	<b>0.5290</b>	<b>8.3400e-003</b>	<b>0.9630</b>	<b>5.0000e-005</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>		<b>2.9200e-003</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>1.0552</b>	<b>1.0552</b>	<b>2.5300e-003</b>	<b>0.0000</b>	<b>1.1083</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.8247	0.0751	1.8100e-003	7.9650
Unmitigated	5.8247	0.0752	1.8200e-003	7.9661

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	2.29929 / 1.44955	5.8247	0.0752	1.8200e-003	7.9661
<b>Total</b>		<b>5.8247</b>	<b>0.0752</b>	<b>1.8200e-003</b>	<b>7.9661</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	2.29929 / 1.44955	5.8247	0.0751	1.8100e-003	7.9650
<b>Total</b>		<b>5.8247</b>	<b>0.0751</b>	<b>1.8100e-003</b>	<b>7.9650</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.2945	0.1947	0.0000	7.3833
Unmitigated	3.2945	0.1947	0.0000	7.3833

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	16.23	3.2945	0.1947	0.0000	7.3833
<b>Total</b>		<b>3.2945</b>	<b>0.1947</b>	<b>0.0000</b>	<b>7.3833</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	16.23	3.2945	0.1947	0.0000	7.3833
<b>Total</b>		<b>3.2945</b>	<b>0.1947</b>	<b>0.0000</b>	<b>7.3833</b>

## 9.0 Operational Offroad

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

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## AAU Existing Site 14 San Francisco County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	114.00	Dwelling Unit	3.00	114,000.00	222

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2000
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves - Assumed no fire places or wood stoves

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	76,950.00	35,093.00
tblArchitecturalCoating	ConstArea_Residential_Interior	230,850.00	105,280.00



tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_Nonresidential_Interior	0	77985
tblAreaCoating	Area_Residential_Exterior	76950	0
tblAreaCoating	Area_Residential_Interior	230850	0
tblConstructionPhase	NumDays	220.00	200.00
tblConstructionPhase	NumDays	6.00	4.00
tblConstructionPhase	NumDays	3.00	2.00
tblEnergyUse	T24E	312.05	234.04
tblFireplaces	NumberGas	62.70	0.00
tblFireplaces	NumberNoFireplace	35.34	0.00
tblFireplaces	NumberWood	15.96	0.00
tblLandUse	Population	326.00	222.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2000
tblTripsAndVMT	VendorTripNumber	12.00	6.00
tblTripsAndVMT	WorkerTripNumber	82.00	37.00
tblTripsAndVMT	WorkerTripNumber	16.00	7.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWoodstoves	NumberCatalytic	0.57	0.00
tblWoodstoves	NumberNoncatalytic	0.57	0.00

## 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	0.5559	0.0109	1.2619	6.0000e-005		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	1.3827	1.3827	3.3100e-003	0.0000	1.4523
Energy	5.4400e-003	0.0465	0.0198	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	171.1731	171.1731	6.3400e-003	2.0800e-003	171.9525
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	10.6449	0.0000	10.6449	0.6291	0.0000	23.8558
Water						0.0000	0.0000		0.0000	0.0000	2.3564	16.4597	18.8161	0.2428	5.8700e-003	25.7336
<b>Total</b>	<b>0.5613</b>	<b>0.0574</b>	<b>1.2817</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>7.5900e-003</b>	<b>7.5900e-003</b>	<b>0.0000</b>	<b>7.5900e-003</b>	<b>7.5900e-003</b>	<b>13.0013</b>	<b>189.0154</b>	<b>202.0167</b>	<b>0.8815</b>	<b>7.9500e-003</b>	<b>222.9942</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	0.5559	0.0109	1.2619	6.0000e-005		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	1.3827	1.3827	3.3100e-003	0.0000	1.4523
Energy	5.4400e-003	0.0465	0.0198	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	171.1731	171.1731	6.3400e-003	2.0800e-003	171.9525
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	10.6449	0.0000	10.6449	0.6291	0.0000	23.8558
Water						0.0000	0.0000		0.0000	0.0000	2.3564	16.4597	18.8161	0.2427	5.8600e-003	25.7298
<b>Total</b>	<b>0.5613</b>	<b>0.0574</b>	<b>1.2817</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>7.5900e-003</b>	<b>7.5900e-003</b>	<b>0.0000</b>	<b>7.5900e-003</b>	<b>7.5900e-003</b>	<b>13.0013</b>	<b>189.0154</b>	<b>202.0167</b>	<b>0.8815</b>	<b>7.9400e-003</b>	<b>222.9904</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	0.13	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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/1/2016	5	2	
3	Grading	Grading	2/2/2016	2/5/2016	5	4	
4	Building Construction	Building Construction	2/6/2016	11/11/2016	5	200	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

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

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

**Acres of Paving: 0**

**Residential Indoor: 105,280; Residential Outdoor: 35,093; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
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
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	37.00	6.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5629</b>	<b>22.5629</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6827</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	0.0000	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766	
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5628</b>	<b>22.5628</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6826</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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	4.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0723	0.0723	0.0000	0.0000	0.0724
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0723</b>	<b>0.0723</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0724</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-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

#### 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	4.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0723	0.0723	0.0000	0.0000	0.0724
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0723</b>	<b>0.0723</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0724</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					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710
<b>Total</b>	<b>3.9800e-003</b>	<b>0.0421</b>	<b>0.0273</b>	<b>3.0000e-005</b>	<b>9.8300e-003</b>	<b>2.2800e-003</b>	<b>0.0121</b>	<b>5.0500e-003</b>	<b>2.1000e-003</b>	<b>7.1500e-003</b>	<b>0.0000</b>	<b>2.6541</b>	<b>2.6541</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.6710</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	8.0000e-005	7.9000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1447	0.1447	1.0000e-005	0.0000	0.1448
<b>Total</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1447</b>	<b>0.1447</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1448</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					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710
<b>Total</b>	<b>3.9800e-003</b>	<b>0.0421</b>	<b>0.0273</b>	<b>3.0000e-005</b>	<b>9.8300e-003</b>	<b>2.2800e-003</b>	<b>0.0121</b>	<b>5.0500e-003</b>	<b>2.1000e-003</b>	<b>7.1500e-003</b>	<b>0.0000</b>	<b>2.6541</b>	<b>2.6541</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.6710</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	8.0000e-005	7.9000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1447	0.1447	1.0000e-005	0.0000	0.1448
<b>Total</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1447</b>	<b>0.1447</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1448</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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6956	185.6956	0.0408	0.0000	186.5527
<b>Total</b>	<b>0.3292</b>	<b>2.0546</b>	<b>1.4707</b>	<b>2.2000e-003</b>		<b>0.1366</b>	<b>0.1366</b>		<b>0.1318</b>	<b>0.1318</b>	<b>0.0000</b>	<b>185.6956</b>	<b>185.6956</b>	<b>0.0408</b>	<b>0.0000</b>	<b>186.5527</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
Vendor	8.6100e-003	0.0592	0.1104	1.4000e-004	3.8300e-003	8.5000e-004	4.6900e-003	1.1000e-003	7.8000e-004	1.8800e-003	0.0000	12.4669	12.4669	1.0000e-004	0.0000	12.4690
Worker	0.0133	0.0183	0.1835	4.4000e-004	0.0336	3.1000e-004	0.0339	8.9300e-003	2.8000e-004	9.2100e-003	0.0000	33.4505	33.4505	1.7700e-003	0.0000	33.4877
<b>Total</b>	<b>0.0219</b>	<b>0.0775</b>	<b>0.2939</b>	<b>5.8000e-004</b>	<b>0.0374</b>	<b>1.1600e-003</b>	<b>0.0386</b>	<b>0.0100</b>	<b>1.0600e-003</b>	<b>0.0111</b>	<b>0.0000</b>	<b>45.9174</b>	<b>45.9174</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>45.9567</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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6954	185.6954	0.0408	0.0000	186.5525
<b>Total</b>	<b>0.3292</b>	<b>2.0546</b>	<b>1.4707</b>	<b>2.2000e-003</b>		<b>0.1366</b>	<b>0.1366</b>		<b>0.1318</b>	<b>0.1318</b>	<b>0.0000</b>	<b>185.6954</b>	<b>185.6954</b>	<b>0.0408</b>	<b>0.0000</b>	<b>186.5525</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	8.6100e-003	0.0592	0.1104	1.4000e-004	3.8300e-003	8.5000e-004	4.6900e-003	1.1000e-003	7.8000e-004	1.8800e-003	0.0000	12.4669	12.4669	1.0000e-004	0.0000	12.4690
Worker	0.0133	0.0183	0.1835	4.4000e-004	0.0336	3.1000e-004	0.0339	8.9300e-003	2.8000e-004	9.2100e-003	0.0000	33.4505	33.4505	1.7700e-003	0.0000	33.4877
<b>Total</b>	<b>0.0219</b>	<b>0.0775</b>	<b>0.2939</b>	<b>5.8000e-004</b>	<b>0.0374</b>	<b>1.1600e-003</b>	<b>0.0386</b>	<b>0.0100</b>	<b>1.0600e-003</b>	<b>0.0111</b>	<b>0.0000</b>	<b>45.9174</b>	<b>45.9174</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>45.9567</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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.4400e-003</b>	<b>0.0660</b>	<b>0.0454</b>	<b>7.0000e-005</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>6.2071</b>	<b>6.2071</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>6.2457</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	2.3000e-004	3.2000e-004	3.2200e-003	1.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5876	0.5876	3.0000e-005	0.0000	0.5883
<b>Total</b>	<b>2.3000e-004</b>	<b>3.2000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5876</b>	<b>0.5876</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5883</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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.4400e-003</b>	<b>0.0660</b>	<b>0.0454</b>	<b>7.0000e-005</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>6.2071</b>	<b>6.2071</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>6.2457</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	2.3000e-004	3.2000e-004	3.2200e-003	1.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5876	0.5876	3.0000e-005	0.0000	0.5883
<b>Total</b>	<b>2.3000e-004</b>	<b>3.2000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5876</b>	<b>0.5876</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5883</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	0.8133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
<b>Total</b>	<b>0.8151</b>	<b>0.0119</b>	<b>9.4200e-003</b>	<b>1.0000e-005</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.2798</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
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	1.3000e-004	1.7000e-004	1.7400e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.3164	0.3164	2.0000e-005	0.0000	0.3168
<b>Total</b>	<b>1.3000e-004</b>	<b>1.7000e-004</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.3164</b>	<b>0.3164</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3168</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	0.8133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
<b>Total</b>	<b>0.8151</b>	<b>0.0119</b>	<b>9.4200e-003</b>	<b>1.0000e-005</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.2798</b>



**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.630142	0.126516	0.135380	0.044811	0.004048	0.008281	0.028653	0.003029	0.001699	0.010368	0.005318	0.000926	0.000829

**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	117.3120	117.3120	5.3000e-003	1.1000e-003	117.7636
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	117.3120	117.3120	5.3000e-003	1.1000e-003	117.7636
NaturalGas Mitigated	5.4400e-003	0.0465	0.0198	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	53.8611	53.8611	1.0300e-003	9.9000e-004	54.1889
NaturalGas Unmitigated	5.4400e-003	0.0465	0.0198	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	53.8611	53.8611	1.0300e-003	9.9000e-004	54.1889

**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					
Apartments Mid Rise	1.00932e+006	5.4400e-003	0.0465	0.0198	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	53.8611	53.8611	1.0300e-003	9.9000e-004	54.1889
<b>Total</b>		<b>5.4400e-003</b>	<b>0.0465</b>	<b>0.0198</b>	<b>3.0000e-004</b>		<b>3.7600e-003</b>	<b>3.7600e-003</b>		<b>3.7600e-003</b>	<b>3.7600e-003</b>	<b>0.0000</b>	<b>53.8611</b>	<b>53.8611</b>	<b>1.0300e-003</b>	<b>9.9000e-004</b>	<b>54.1889</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					
Apartments Mid Rise	1.00932e+006	5.4400e-003	0.0465	0.0198	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	53.8611	53.8611	1.0300e-003	9.9000e-004	54.1889
<b>Total</b>		<b>5.4400e-003</b>	<b>0.0465</b>	<b>0.0198</b>	<b>3.0000e-004</b>		<b>3.7600e-003</b>	<b>3.7600e-003</b>		<b>3.7600e-003</b>	<b>3.7600e-003</b>	<b>0.0000</b>	<b>53.8611</b>	<b>53.8611</b>	<b>1.0300e-003</b>	<b>9.9000e-004</b>	<b>54.1889</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	403257	117.3120	5.3000e-003	1.1000e-003	117.7636
<b>Total</b>		<b>117.3120</b>	<b>5.3000e-003</b>	<b>1.1000e-003</b>	<b>117.7636</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	403257	117.3120	5.3000e-003	1.1000e-003	117.7636
<b>Total</b>		<b>117.3120</b>	<b>5.3000e-003</b>	<b>1.1000e-003</b>	<b>117.7636</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	0.5559	0.0109	1.2619	6.0000e-005		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	1.3827	1.3827	3.3100e-003	0.0000	1.4523
Unmitigated	0.5559	0.0109	1.2619	6.0000e-005		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	1.3827	1.3827	3.3100e-003	0.0000	1.4523



## 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	0.0452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0655	0.0109	1.2619	6.0000e-005		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	1.3827	1.3827	3.3100e-003	0.0000	1.4523
<b>Total</b>	<b>0.5559</b>	<b>0.0109</b>	<b>1.2619</b>	<b>6.0000e-005</b>		<b>3.8300e-003</b>	<b>3.8300e-003</b>		<b>3.8300e-003</b>	<b>3.8300e-003</b>	<b>0.0000</b>	<b>1.3827</b>	<b>1.3827</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>1.4523</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	0.0452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0655	0.0109	1.2619	6.0000e-005		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	1.3827	1.3827	3.3100e-003	0.0000	1.4523
<b>Total</b>	<b>0.5559</b>	<b>0.0109</b>	<b>1.2619</b>	<b>6.0000e-005</b>		<b>3.8300e-003</b>	<b>3.8300e-003</b>		<b>3.8300e-003</b>	<b>3.8300e-003</b>	<b>0.0000</b>	<b>1.3827</b>	<b>1.3827</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>1.4523</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	18.8161	0.2427	5.8600e-003	25.7298
Unmitigated	18.8161	0.2428	5.8700e-003	25.7336

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.42756 / 4.68259	18.8161	0.2428	5.8700e-003	25.7336
<b>Total</b>		<b>18.8161</b>	<b>0.2428</b>	<b>5.8700e-003</b>	<b>25.7336</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.42756 / 4.68259	18.8161	0.2427	5.8600e-003	25.7298
<b>Total</b>		<b>18.8161</b>	<b>0.2427</b>	<b>5.8600e-003</b>	<b>25.7298</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.6449	0.6291	0.0000	23.8558
Unmitigated	10.6449	0.6291	0.0000	23.8558

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	52.44	10.6449	0.6291	0.0000	23.8558
<b>Total</b>		<b>10.6449</b>	<b>0.6291</b>	<b>0.0000</b>	<b>23.8558</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	52.44	10.6449	0.6291	0.0000	23.8558
<b>Total</b>		<b>10.6449</b>	<b>0.6291</b>	<b>0.0000</b>	<b>23.8558</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 14**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	114.00	Dwelling Unit	3.00	114,000.00	222

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2000
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Woodstoves -

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	76,950.00	35,093.00
tblArchitecturalCoating	ConstArea_Residential_Interior	230,850.00	105,280.00

tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_Nonresidential_Interior	0	77985
tblAreaCoating	Area_Residential_Exterior	76950	0
tblAreaCoating	Area_Residential_Interior	230850	0
tblConstructionPhase	NumDays	220.00	200.00
tblConstructionPhase	NumDays	6.00	4.00
tblConstructionPhase	NumDays	3.00	2.00
tblEnergyUse	T24E	312.05	234.04
tblLandUse	Population	326.00	222.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	7.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2000
tblTripsAndVMT	VendorTripNumber	12.00	6.00
tblTripsAndVMT	WorkerTripNumber	82.00	37.00
tblTripsAndVMT	WorkerTripNumber	16.00	7.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00

## 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	0.6443	0.0124	1.3884	1.7000e-004		0.0222	0.0222		0.0222	0.0222	1.8659	4.3970	6.2629	6.7800e-003	1.6000e-004	6.4535
Energy	5.4400e-003	0.0465	0.0198	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	171.1731	171.1731	6.3400e-003	2.0800e-003	171.9525
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	10.6449	0.0000	10.6449	0.6291	0.0000	23.8558
Water						0.0000	0.0000		0.0000	0.0000	2.3564	16.4597	18.8161	0.2428	5.8700e-003	25.7336
<b>Total</b>	<b>0.6497</b>	<b>0.0590</b>	<b>1.4082</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>0.0260</b>	<b>0.0260</b>	<b>0.0000</b>	<b>0.0260</b>	<b>0.0260</b>	<b>14.8672</b>	<b>192.0298</b>	<b>206.8969</b>	<b>0.8850</b>	<b>8.1100e-003</b>	<b>227.9954</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	0.6443	0.0124	1.3884	1.7000e-004		0.0222	0.0222		0.0222	0.0222	1.8659	4.3970	6.2629	6.7800e-003	1.6000e-004	6.4535
Energy	5.4400e-003	0.0465	0.0198	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	171.1731	171.1731	6.3400e-003	2.0800e-003	171.9525
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	10.6449	0.0000	10.6449	0.6291	0.0000	23.8558
Water						0.0000	0.0000		0.0000	0.0000	2.3564	16.4597	18.8161	0.2427	5.8600e-003	25.7298
<b>Total</b>	<b>0.6497</b>	<b>0.0590</b>	<b>1.4082</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>0.0260</b>	<b>0.0260</b>	<b>0.0000</b>	<b>0.0260</b>	<b>0.0260</b>	<b>14.8672</b>	<b>192.0298</b>	<b>206.8969</b>	<b>0.8849</b>	<b>8.1000e-003</b>	<b>227.9916</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	0.12	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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/1/2016	5	2	
3	Grading	Grading	2/2/2016	2/5/2016	5	4	
4	Building Construction	Building Construction	2/6/2016	11/11/2016	5	200	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

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

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

**Acres of Paving: 0**

**Residential Indoor: 105,280; Residential Outdoor: 35,093; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
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
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	37.00	6.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5629</b>	<b>22.5629</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6827</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	0.0000	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766	
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5628</b>	<b>22.5628</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6826</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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	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	4.0000e-005	4.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0723	0.0723	0.0000	0.0000	0.0724	0.0000
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0723</b>	<b>0.0723</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0724</b>	<b>0.0000</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-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

#### 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	4.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0723	0.0723	0.0000	0.0000	0.0724
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0723</b>	<b>0.0723</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0724</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					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710
<b>Total</b>	<b>3.9800e-003</b>	<b>0.0421</b>	<b>0.0273</b>	<b>3.0000e-005</b>	<b>9.8300e-003</b>	<b>2.2800e-003</b>	<b>0.0121</b>	<b>5.0500e-003</b>	<b>2.1000e-003</b>	<b>7.1500e-003</b>	<b>0.0000</b>	<b>2.6541</b>	<b>2.6541</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.6710</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	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.0000e-005	8.0000e-005	7.9000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1447	0.1447	1.0000e-005	0.0000	0.1448	
<b>Total</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1447</b>	<b>0.1447</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1448</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					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710	
<b>Total</b>	<b>3.9800e-003</b>	<b>0.0421</b>	<b>0.0273</b>	<b>3.0000e-005</b>	<b>9.8300e-003</b>	<b>2.2800e-003</b>	<b>0.0121</b>	<b>5.0500e-003</b>	<b>2.1000e-003</b>	<b>7.1500e-003</b>	<b>0.0000</b>	<b>2.6541</b>	<b>2.6541</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.6710</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	8.0000e-005	7.9000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1447	0.1447	1.0000e-005	0.0000	0.1448
<b>Total</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1447</b>	<b>0.1447</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1448</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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6956	185.6956	0.0408	0.0000	186.5527
<b>Total</b>	<b>0.3292</b>	<b>2.0546</b>	<b>1.4707</b>	<b>2.2000e-003</b>		<b>0.1366</b>	<b>0.1366</b>		<b>0.1318</b>	<b>0.1318</b>	<b>0.0000</b>	<b>185.6956</b>	<b>185.6956</b>	<b>0.0408</b>	<b>0.0000</b>	<b>186.5527</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
Vendor	8.6100e-003	0.0592	0.1104	1.4000e-004	3.8300e-003	8.5000e-004	4.6900e-003	1.1000e-003	7.8000e-004	1.8800e-003	0.0000	12.4669	12.4669	1.0000e-004	0.0000	12.4690
Worker	0.0133	0.0183	0.1835	4.4000e-004	0.0336	3.1000e-004	0.0339	8.9300e-003	2.8000e-004	9.2100e-003	0.0000	33.4505	33.4505	1.7700e-003	0.0000	33.4877
<b>Total</b>	<b>0.0219</b>	<b>0.0775</b>	<b>0.2939</b>	<b>5.8000e-004</b>	<b>0.0374</b>	<b>1.1600e-003</b>	<b>0.0386</b>	<b>0.0100</b>	<b>1.0600e-003</b>	<b>0.0111</b>	<b>0.0000</b>	<b>45.9174</b>	<b>45.9174</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>45.9567</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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6954	185.6954	0.0408	0.0000	186.5525
<b>Total</b>	<b>0.3292</b>	<b>2.0546</b>	<b>1.4707</b>	<b>2.2000e-003</b>		<b>0.1366</b>	<b>0.1366</b>		<b>0.1318</b>	<b>0.1318</b>	<b>0.0000</b>	<b>185.6954</b>	<b>185.6954</b>	<b>0.0408</b>	<b>0.0000</b>	<b>186.5525</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	8.6100e-003	0.0592	0.1104	1.4000e-004	3.8300e-003	8.5000e-004	4.6900e-003	1.1000e-003	7.8000e-004	1.8800e-003	0.0000	12.4669	12.4669	1.0000e-004	0.0000	12.4690
Worker	0.0133	0.0183	0.1835	4.4000e-004	0.0336	3.1000e-004	0.0339	8.9300e-003	2.8000e-004	9.2100e-003	0.0000	33.4505	33.4505	1.7700e-003	0.0000	33.4877
<b>Total</b>	<b>0.0219</b>	<b>0.0775</b>	<b>0.2939</b>	<b>5.8000e-004</b>	<b>0.0374</b>	<b>1.1600e-003</b>	<b>0.0386</b>	<b>0.0100</b>	<b>1.0600e-003</b>	<b>0.0111</b>	<b>0.0000</b>	<b>45.9174</b>	<b>45.9174</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>45.9567</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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.4400e-003</b>	<b>0.0660</b>	<b>0.0454</b>	<b>7.0000e-005</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>6.2071</b>	<b>6.2071</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>6.2457</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	2.3000e-004	3.2000e-004	3.2200e-003	1.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5876	0.5876	3.0000e-005	0.0000	0.5883
<b>Total</b>	<b>2.3000e-004</b>	<b>3.2000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5876</b>	<b>0.5876</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5883</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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.4400e-003</b>	<b>0.0660</b>	<b>0.0454</b>	<b>7.0000e-005</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>6.2071</b>	<b>6.2071</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>6.2457</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	2.3000e-004	3.2000e-004	3.2200e-003	1.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5876	0.5876	3.0000e-005	0.0000	0.5883
<b>Total</b>	<b>2.3000e-004</b>	<b>3.2000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5876</b>	<b>0.5876</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5883</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	0.8133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
<b>Total</b>	<b>0.8151</b>	<b>0.0119</b>	<b>9.4200e-003</b>	<b>1.0000e-005</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.2798</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	1.3000e-004	1.7000e-004	1.7400e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.3164	0.3164	2.0000e-005	0.0000	0.3168	
<b>Total</b>	<b>1.3000e-004</b>	<b>1.7000e-004</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.3164</b>	<b>0.3164</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3168</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	0.8133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
<b>Total</b>	<b>0.8151</b>	<b>0.0119</b>	<b>9.4200e-003</b>	<b>1.0000e-005</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.2798</b>



**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.630142	0.126516	0.135380	0.044811	0.004048	0.008281	0.028653	0.003029	0.001699	0.010368	0.005318	0.000926	0.000829

**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	117.3120	117.3120	5.3000e-003	1.1000e-003	117.7636
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	117.3120	117.3120	5.3000e-003	1.1000e-003	117.7636
NaturalGas Mitigated	5.4400e-003	0.0465	0.0198	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	53.8611	53.8611	1.0300e-003	9.9000e-004	54.1889
NaturalGas Unmitigated	5.4400e-003	0.0465	0.0198	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	53.8611	53.8611	1.0300e-003	9.9000e-004	54.1889

**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					
Apartments Mid Rise	1.00932e+006	5.4400e-003	0.0465	0.0198	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	53.8611	53.8611	1.0300e-003	9.9000e-004	54.1889
<b>Total</b>		<b>5.4400e-003</b>	<b>0.0465</b>	<b>0.0198</b>	<b>3.0000e-004</b>		<b>3.7600e-003</b>	<b>3.7600e-003</b>		<b>3.7600e-003</b>	<b>3.7600e-003</b>	<b>0.0000</b>	<b>53.8611</b>	<b>53.8611</b>	<b>1.0300e-003</b>	<b>9.9000e-004</b>	<b>54.1889</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					
Apartments Mid Rise	1.00932e+006	5.4400e-003	0.0465	0.0198	3.0000e-004		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	53.8611	53.8611	1.0300e-003	9.9000e-004	54.1889
<b>Total</b>		<b>5.4400e-003</b>	<b>0.0465</b>	<b>0.0198</b>	<b>3.0000e-004</b>		<b>3.7600e-003</b>	<b>3.7600e-003</b>		<b>3.7600e-003</b>	<b>3.7600e-003</b>	<b>0.0000</b>	<b>53.8611</b>	<b>53.8611</b>	<b>1.0300e-003</b>	<b>9.9000e-004</b>	<b>54.1889</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	403257	117.3120	5.3000e-003	1.1000e-003	117.7636
<b>Total</b>		<b>117.3120</b>	<b>5.3000e-003</b>	<b>1.1000e-003</b>	<b>117.7636</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	403257	117.3120	5.3000e-003	1.1000e-003	117.7636
<b>Total</b>		<b>117.3120</b>	<b>5.3000e-003</b>	<b>1.1000e-003</b>	<b>117.7636</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	0.6443	0.0124	1.3884	1.7000e-004		0.0222	0.0222		0.0222	0.0222	1.8659	4.3970	6.2629	6.7800e-003	1.6000e-004	6.4535
Unmitigated	0.6443	0.0124	1.3884	1.7000e-004		0.0222	0.0222		0.0222	0.0222	1.8659	4.3970	6.2629	6.7800e-003	1.6000e-004	6.4535

## 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	0.0452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0884	1.5000e-003	0.1265	1.1000e-004		0.0184	0.0184		0.0184	0.0184	1.8659	3.0143	4.8802	3.4600e-003	1.6000e-004	5.0012
Landscaping	0.0655	0.0109	1.2619	6.0000e-005		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	1.3827	1.3827	3.3100e-003	0.0000	1.4523
<b>Total</b>	<b>0.6443</b>	<b>0.0124</b>	<b>1.3884</b>	<b>1.7000e-004</b>		<b>0.0222</b>	<b>0.0222</b>		<b>0.0222</b>	<b>0.0222</b>	<b>1.8659</b>	<b>4.3970</b>	<b>6.2629</b>	<b>6.7700e-003</b>	<b>1.6000e-004</b>	<b>6.4535</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	0.0452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0884	1.5000e-003	0.1265	1.1000e-004		0.0184	0.0184		0.0184	0.0184	1.8659	3.0143	4.8802	3.4600e-003	1.6000e-004	5.0012
Landscaping	0.0655	0.0109	1.2619	6.0000e-005		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	1.3827	1.3827	3.3100e-003	0.0000	1.4523
<b>Total</b>	<b>0.6443</b>	<b>0.0124</b>	<b>1.3884</b>	<b>1.7000e-004</b>		<b>0.0222</b>	<b>0.0222</b>		<b>0.0222</b>	<b>0.0222</b>	<b>1.8659</b>	<b>4.3970</b>	<b>6.2629</b>	<b>6.7700e-003</b>	<b>1.6000e-004</b>	<b>6.4535</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	18.8161	0.2427	5.8600e-003	25.7298
Unmitigated	18.8161	0.2428	5.8700e-003	25.7336



## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.42756 / 4.68259	18.8161	0.2428	5.8700e-003	25.7336
<b>Total</b>		<b>18.8161</b>	<b>0.2428</b>	<b>5.8700e-003</b>	<b>25.7336</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.42756 / 4.68259	18.8161	0.2427	5.8600e-003	25.7298
<b>Total</b>		<b>18.8161</b>	<b>0.2427</b>	<b>5.8600e-003</b>	<b>25.7298</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.6449	0.6291	0.0000	23.8558
Unmitigated	10.6449	0.6291	0.0000	23.8558

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	52.44	10.6449	0.6291	0.0000	23.8558
<b>Total</b>		<b>10.6449</b>	<b>0.6291</b>	<b>0.0000</b>	<b>23.8558</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	52.44	10.6449	0.6291	0.0000	23.8558
<b>Total</b>		<b>10.6449</b>	<b>0.6291</b>	<b>0.0000</b>	<b>23.8558</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 16**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	1.88	1000sqft	0.04	1,875.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2000
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 5.333 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2000
tblVehicleTrips	ST_TR	11.23	5.33
tblVehicleTrips	SU_TR	1.21	5.33
tblVehicleTrips	WD_TR	27.49	5.33

## 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	9.5000e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	4.0000e-005
Energy	2.7000e-004	2.5000e-003	2.1000e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	8.3402	8.3402	3.1000e-004	1.0000e-004	8.3784
Mobile	0.0291	0.0513	0.3175	3.6000e-004	8.5300e-003	7.5000e-004	9.2900e-003	2.4800e-003	7.5000e-004	3.2300e-003	0.0000	13.6744	13.6744	2.2900e-003	0.0000	13.7225
Waste						0.0000	0.0000		0.0000	0.0000	0.4953	0.0000	0.4953	0.0293	0.0000	1.1100
Water						0.0000	0.0000		0.0000	0.0000	0.0293	0.2920	0.3213	3.0200e-003	7.0000e-005	0.4075
<b>Total</b>	<b>0.0389</b>	<b>0.0538</b>	<b>0.3197</b>	<b>3.7000e-004</b>	<b>8.5300e-003</b>	<b>9.4000e-004</b>	<b>9.4800e-003</b>	<b>2.4800e-003</b>	<b>9.4000e-004</b>	<b>3.4200e-003</b>	<b>0.5246</b>	<b>22.3067</b>	<b>22.8312</b>	<b>0.0349</b>	<b>1.7000e-004</b>	<b>23.6185</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	9.5000e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	4.0000e-005
Energy	2.7000e-004	2.5000e-003	2.1000e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	8.3402	8.3402	3.1000e-004	1.0000e-004	8.3784
Mobile	0.0291	0.0513	0.3175	3.6000e-004	8.5300e-003	7.5000e-004	9.2900e-003	2.4800e-003	7.5000e-004	3.2300e-003	0.0000	13.6744	13.6744	2.2900e-003	0.0000	13.7225
Waste						0.0000	0.0000		0.0000	0.0000	0.4953	0.0000	0.4953	0.0293	0.0000	1.1100
Water						0.0000	0.0000		0.0000	0.0000	0.0293	0.2920	0.3213	3.0200e-003	7.0000e-005	0.4074
<b>Total</b>	<b>0.0389</b>	<b>0.0538</b>	<b>0.3197</b>	<b>3.7000e-004</b>	<b>8.5300e-003</b>	<b>9.4000e-004</b>	<b>9.4800e-003</b>	<b>2.4800e-003</b>	<b>9.4000e-004</b>	<b>3.4200e-003</b>	<b>0.5246</b>	<b>22.3067</b>	<b>22.8312</b>	<b>0.0349</b>	<b>1.7000e-004</b>	<b>23.6184</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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,813; Non-Residential Outdoor: 938 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	1.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>

### 3.2 Demolition - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>

### 3.3 Site Preparation - 2016

#### 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.4 Grading - 2016

#### 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4584</b>	<b>53.4584</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7970</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>

### 3.5 Building Construction - 2016

#### 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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4583</b>	<b>53.4583</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7969</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>

**3.6 Paving - 2016****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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>



### 3.7 Architectural Coating - 2016

#### 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	0.0217					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>0.0227</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>

#### 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	0.0000	0.0000	0.0000	0.0000	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>	<b>0.0000</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	0.0291	0.0513	0.3175	3.6000e-004	8.5300e-003	7.5000e-004	9.2900e-003	2.4800e-003	7.5000e-004	3.2300e-003	0.0000	13.6744	13.6744	2.2900e-003	0.0000	13.7225
Unmitigated	0.0291	0.0513	0.3175	3.6000e-004	8.5300e-003	7.5000e-004	9.2900e-003	2.4800e-003	7.5000e-004	3.2300e-003	0.0000	13.6744	13.6744	2.2900e-003	0.0000	13.7225

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	10.00	10.00	10.00	25,394	25,394
Total	10.00	10.00	10.00	25,394	25,394

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.630142	0.126516	0.135380	0.044811	0.004048	0.008281	0.028653	0.003029	0.001699	0.010368	0.005318	0.000926	0.000829

### 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	5.6237	5.6237	2.5000e-004	5.0000e-005	5.6453
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5.6237	5.6237	2.5000e-004	5.0000e-005	5.6453
NaturalGas Mitigated	2.7000e-004	2.5000e-003	2.1000e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7166	2.7166	5.0000e-005	5.0000e-005	2.7331
NaturalGas Unmitigated	2.7000e-004	2.5000e-003	2.1000e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7166	2.7166	5.0000e-005	5.0000e-005	2.7331

### 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					
Junior College (2Yr)	50906.3	2.7000e-004	2.5000e-003	2.1000e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7166	2.7166	5.0000e-005	5.0000e-005	2.7331
<b>Total</b>		<b>2.7000e-004</b>	<b>2.5000e-003</b>	<b>2.1000e-003</b>	<b>1.0000e-005</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.7166</b>	<b>2.7166</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>2.7331</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					
Junior College (2Yr)	50906.3	2.7000e-004	2.5000e-003	2.1000e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7166	2.7166	5.0000e-005	5.0000e-005	2.7331
<b>Total</b>		<b>2.7000e-004</b>	<b>2.5000e-003</b>	<b>2.1000e-003</b>	<b>1.0000e-005</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.7166</b>	<b>2.7166</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>2.7331</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	19331.2	5.6237	2.5000e-004	5.0000e-005	5.6453
<b>Total</b>		<b>5.6237</b>	<b>2.5000e-004</b>	<b>5.0000e-005</b>	<b>5.6453</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	19331.2	5.6237	2.5000e-004	5.0000e-005	5.6453
<b>Total</b>		<b>5.6237</b>	<b>2.5000e-004</b>	<b>5.0000e-005</b>	<b>5.6453</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	9.5000e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	4.0000e-005
Unmitigated	9.5000e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	4.0000e-005

## 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	2.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	4.0000e-005
<b>Total</b>	<b>9.4900e-003</b>	<b>0.0000</b>	<b>3.0000e-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>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.0000e-005</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	2.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-005	3.0000e-005	0.0000	0.0000	4.0000e-005
<b>Total</b>	<b>9.4900e-003</b>	<b>0.0000</b>	<b>3.0000e-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>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.0000e-005</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3213	3.0200e-003	7.0000e-005	0.4074
Unmitigated	0.3213	3.0200e-003	7.0000e-005	0.4075

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	0.0922122 / 0.144229	0.3213	3.0200e-003	7.0000e-005	0.4075
<b>Total</b>		<b>0.3213</b>	<b>3.0200e-003</b>	<b>7.0000e-005</b>	<b>0.4075</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	0.0922122 / 0.144229	0.3213	3.0200e-003	7.0000e-005	0.4074
<b>Total</b>		<b>0.3213</b>	<b>3.0200e-003</b>	<b>7.0000e-005</b>	<b>0.4074</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.4953	0.0293	0.0000	1.1100
Unmitigated	0.4953	0.0293	0.0000	1.1100

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	2.44	0.4953	0.0293	0.0000	1.1100
<b>Total</b>		<b>0.4953</b>	<b>0.0293</b>	<b>0.0000</b>	<b>1.1100</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	2.44	0.4953	0.0293	0.0000	1.1100
<b>Total</b>		<b>0.4953</b>	<b>0.0293</b>	<b>0.0000</b>	<b>1.1100</b>

## 9.0 Operational Offroad

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

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## AAU Existing Site 17 San Francisco County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	81.00	Dwelling Unit	2.13	81,000.00	155

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2000
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Woodstoves - Assumed no fire places or wood stoves0

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	54,675.00	24,444.00
tblArchitecturalCoating	ConstArea_Residential_Interior	164,025.00	73,331.00



tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_Nonresidential_Interior	0	54320
tblAreaCoating	Area_Residential_Exterior	54675	0
tblAreaCoating	Area_Residential_Interior	164025	0
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	220.00	100.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	6.00	2.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDays	3.00	1.00
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	44.55	0.00
tblFireplaces	NumberNoFireplace	25.11	0.00
tblFireplaces	NumberWood	11.34	0.00
tblLandUse	Population	232.00	155.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00

tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2000
tblTripsAndVMT	VendorTripNumber	9.00	4.00
tblTripsAndVMT	WorkerTripNumber	58.00	26.00
tblTripsAndVMT	WorkerTripNumber	12.00	5.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWoodstoves	NumberCatalytic	0.41	0.00
tblWoodstoves	NumberNoncatalytic	0.41	0.00

## 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	0.3943	7.7700e-003	0.8966	5.0000e-005		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	0.9824	0.9824	2.3500e-003	0.0000	1.0319
Energy	3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	113.8515	113.8515	4.3500e-003	1.3400e-003	114.3580
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	7.5634	0.0000	7.5634	0.4470	0.0000	16.9502
Water						0.0000	0.0000		0.0000	0.0000	1.6743	11.6950	13.3693	0.1725	4.1700e-003	18.2844
<b>Total</b>	<b>0.3974</b>	<b>0.0341</b>	<b>0.9078</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>9.2377</b>	<b>126.5290</b>	<b>135.7667</b>	<b>0.6262</b>	<b>5.5100e-003</b>	<b>150.6245</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	0.3943	7.7700e-003	0.8966	5.0000e-005		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	0.9824	0.9824	2.3500e-003	0.0000	1.0319
Energy	3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	113.8515	113.8515	4.3500e-003	1.3400e-003	114.3580
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	7.5634	0.0000	7.5634	0.4470	0.0000	16.9502
Water						0.0000	0.0000		0.0000	0.0000	1.6743	11.6950	13.3693	0.1725	4.1600e-003	18.2817
<b>Total</b>	<b>0.3974</b>	<b>0.0341</b>	<b>0.9078</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>9.2377</b>	<b>126.5290</b>	<b>135.7667</b>	<b>0.6262</b>	<b>5.5000e-003</b>	<b>150.6218</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	0.01	0.18	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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 73,331; Residential Outdoor: 24,444; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	26.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>



**3.2 Demolition - 2016****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>

### 3.3 Site Preparation - 2016

#### 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.4 Grading - 2016

#### 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4584</b>	<b>53.4584</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7970</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.8700e-003	0.0197	0.0368	5.0000e-005	1.2800e-003	2.8000e-004	1.5600e-003	3.7000e-004	2.6000e-004	6.3000e-004	0.0000	4.1556	4.1556	3.0000e-005	0.0000	4.1563
Worker	4.6800e-003	6.4300e-003	0.0645	1.5000e-004	0.0118	1.1000e-004	0.0119	3.1400e-003	1.0000e-004	3.2400e-003	0.0000	11.7529	11.7529	6.2000e-004	0.0000	11.7660
<b>Total</b>	<b>7.5500e-003</b>	<b>0.0262</b>	<b>0.1013</b>	<b>2.0000e-004</b>	<b>0.0131</b>	<b>3.9000e-004</b>	<b>0.0135</b>	<b>3.5100e-003</b>	<b>3.6000e-004</b>	<b>3.8700e-003</b>	<b>0.0000</b>	<b>15.9085</b>	<b>15.9085</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>15.9223</b>

### 3.5 Building Construction - 2016

#### 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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4583</b>	<b>53.4583</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7969</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.8700e-003	0.0197	0.0368	5.0000e-005	1.2800e-003	2.8000e-004	1.5600e-003	3.7000e-004	2.6000e-004	6.3000e-004	0.0000	4.1556	4.1556	3.0000e-005	0.0000	4.1563
Worker	4.6800e-003	6.4300e-003	0.0645	1.5000e-004	0.0118	1.1000e-004	0.0119	3.1400e-003	1.0000e-004	3.2400e-003	0.0000	11.7529	11.7529	6.2000e-004	0.0000	11.7660
<b>Total</b>	<b>7.5500e-003</b>	<b>0.0262</b>	<b>0.1013</b>	<b>2.0000e-004</b>	<b>0.0131</b>	<b>3.9000e-004</b>	<b>0.0135</b>	<b>3.5100e-003</b>	<b>3.6000e-004</b>	<b>3.8700e-003</b>	<b>0.0000</b>	<b>15.9085</b>	<b>15.9085</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>15.9223</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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>



**3.6 Paving - 2016****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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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	0.5665					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>0.5674</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>

#### 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	5.0000e-005	6.0000e-005	6.2000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1130	0.1130	1.0000e-005	0.0000	0.1131
<b>Total</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1130</b>	<b>0.1130</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1131</b>

### 3.7 Architectural Coating - 2016

#### 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	0.5665					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>0.5674</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>

#### 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	5.0000e-005	6.0000e-005	6.2000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1130	0.1130	1.0000e-005	0.0000	0.1131
<b>Total</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1130</b>	<b>0.1130</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1131</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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.630142	0.126516	0.135380	0.044811	0.004048	0.008281	0.028653	0.003029	0.001699	0.010368	0.005318	0.000926	0.000829

### 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	83.3533	83.3533	3.7700e-003	7.8000e-004	83.6742
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	83.3533	83.3533	3.7700e-003	7.8000e-004	83.6742
NaturalGas Mitigated	3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	30.4983	30.4983	5.8000e-004	5.6000e-004	30.6839
NaturalGas Unmitigated	3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	30.4983	30.4983	5.8000e-004	5.6000e-004	30.6839

### 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					
Apartments Mid Rise	571516	3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	30.4983	30.4983	5.8000e-004	5.6000e-004	30.6839
<b>Total</b>		<b>3.0800e-003</b>	<b>0.0263</b>	<b>0.0112</b>	<b>1.7000e-004</b>		<b>2.1300e-003</b>	<b>2.1300e-003</b>		<b>2.1300e-003</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>30.4983</b>	<b>30.4983</b>	<b>5.8000e-004</b>	<b>5.6000e-004</b>	<b>30.6839</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					
Apartments Mid Rise	571516	3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	30.4983	30.4983	5.8000e-004	5.6000e-004	30.6839
<b>Total</b>		<b>3.0800e-003</b>	<b>0.0263</b>	<b>0.0112</b>	<b>1.7000e-004</b>		<b>2.1300e-003</b>	<b>2.1300e-003</b>		<b>2.1300e-003</b>	<b>2.1300e-003</b>	<b>0.0000</b>	<b>30.4983</b>	<b>30.4983</b>	<b>5.8000e-004</b>	<b>5.6000e-004</b>	<b>30.6839</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	286525	83.3533	3.7700e-003	7.8000e-004	83.6742
<b>Total</b>		<b>83.3533</b>	<b>3.7700e-003</b>	<b>7.8000e-004</b>	<b>83.6742</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	286525	83.3533	3.7700e-003	7.8000e-004	83.6742
<b>Total</b>		<b>83.3533</b>	<b>3.7700e-003</b>	<b>7.8000e-004</b>	<b>83.6742</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	0.3943	7.7700e-003	0.8966	5.0000e-005		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	0.9824	0.9824	2.3500e-003	0.0000	1.0319
Unmitigated	0.3943	7.7700e-003	0.8966	5.0000e-005		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	0.9824	0.9824	2.3500e-003	0.0000	1.0319

### 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	0.0315					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3164					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0465	7.7700e-003	0.8966	5.0000e-005		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	0.9824	0.9824	2.3500e-003	0.0000	1.0319
<b>Total</b>	<b>0.3943</b>	<b>7.7700e-003</b>	<b>0.8966</b>	<b>5.0000e-005</b>		<b>2.7200e-003</b>	<b>2.7200e-003</b>		<b>2.7200e-003</b>	<b>2.7200e-003</b>	<b>0.0000</b>	<b>0.9824</b>	<b>0.9824</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>1.0319</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	0.0315					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3164					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0465	7.7700e-003	0.8966	5.0000e-005		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	0.9824	0.9824	2.3500e-003	0.0000	1.0319
<b>Total</b>	<b>0.3943</b>	<b>7.7700e-003</b>	<b>0.8966</b>	<b>5.0000e-005</b>		<b>2.7200e-003</b>	<b>2.7200e-003</b>		<b>2.7200e-003</b>	<b>2.7200e-003</b>	<b>0.0000</b>	<b>0.9824</b>	<b>0.9824</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>1.0319</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	13.3693	0.1725	4.1600e-003	18.2817
Unmitigated	13.3693	0.1725	4.1700e-003	18.2844

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.27748 / 3.3271	13.3693	0.1725	4.1700e-003	18.2844
<b>Total</b>		<b>13.3693</b>	<b>0.1725</b>	<b>4.1700e-003</b>	<b>18.2844</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.27748 / 3.3271	13.3693	0.1725	4.1600e-003	18.2817
<b>Total</b>		<b>13.3693</b>	<b>0.1725</b>	<b>4.1600e-003</b>	<b>18.2817</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.5634	0.4470	0.0000	16.9502
Unmitigated	7.5634	0.4470	0.0000	16.9502

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	37.26	7.5634	0.4470	0.0000	16.9502
<b>Total</b>		<b>7.5634</b>	<b>0.4470</b>	<b>0.0000</b>	<b>16.9502</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	37.26	7.5634	0.4470	0.0000	16.9502
<b>Total</b>		<b>7.5634</b>	<b>0.4470</b>	<b>0.0000</b>	<b>16.9502</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 20**  
**San Francisco County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	65.00	Dwelling Unit	1.71	65,000.00	129

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 - Dwelling unit amount and population adjusted according to updated information provided in Table A-1.

Vehicle Trips - Vehicle trips are based on project specific traffic study there are no non-shuttle vehicle trips. Shuttle trip emissions estimated separately.

Area Coating -

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Woodstoves - Assumed no fireplaces or woodstoves

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	43,875.00	45,748.00
tblArchitecturalCoating	ConstArea_Residential_Interior	131,625.00	137,244.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_Nonresidential_Interior	0	101663
tblAreaCoating	Area_Residential_Exterior	43875	0
tblAreaCoating	Area_Residential_Interior	131625	0
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24NG	7,191.67	5,393.75
tblFireplaces	NumberGas	35.75	0.00
tblFireplaces	NumberNoFireplace	20.15	0.00
tblFireplaces	NumberWood	9.10	0.00
tblLandUse	Population	186.00	129.00
tblProjectCharacteristics	OperationalYear	2014	2005
tblTripsAndVMT	WorkerTripNumber	47.00	49.00
tblTripsAndVMT	WorkerTripNumber	9.00	10.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblWoodstoves	NumberCatalytic	0.33	0.00
tblWoodstoves	NumberNoncatalytic	0.33	0.00

## 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	0.3370	7.6100e-003	0.5597	3.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	0.7884	0.7884	1.2600e-003	0.0000	0.8149
Energy	2.4700e-003	0.0211	8.9900e-003	1.3000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	91.3623	91.3623	3.4900e-003	1.0700e-003	91.7688
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	6.0694	0.0000	6.0694	0.3587	0.0000	13.6020
Water						0.0000	0.0000		0.0000	0.0000	1.3436	9.3849	10.7285	0.1384	3.3500e-003	14.6727
<b>Total</b>	<b>0.3394</b>	<b>0.0287</b>	<b>0.5687</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>4.0700e-003</b>	<b>4.0700e-003</b>	<b>0.0000</b>	<b>4.0700e-003</b>	<b>4.0700e-003</b>	<b>7.4130</b>	<b>101.5356</b>	<b>108.9486</b>	<b>0.5019</b>	<b>4.4200e-003</b>	<b>120.8583</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	0.3370	7.6100e-003	0.5597	3.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	0.7884	0.7884	1.2600e-003	0.0000	0.8149
Energy	2.4700e-003	0.0211	8.9900e-003	1.3000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	91.3623	91.3623	3.4900e-003	1.0700e-003	91.7688
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	6.0694	0.0000	6.0694	0.3587	0.0000	13.6020
Water						0.0000	0.0000		0.0000	0.0000	1.3436	9.3849	10.7285	0.1384	3.3400e-003	14.6705
<b>Total</b>	<b>0.3394</b>	<b>0.0287</b>	<b>0.5687</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>4.0700e-003</b>	<b>4.0700e-003</b>	<b>0.0000</b>	<b>4.0700e-003</b>	<b>4.0700e-003</b>	<b>7.4130</b>	<b>101.5356</b>	<b>108.9486</b>	<b>0.5018</b>	<b>4.4100e-003</b>	<b>120.8562</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	0.23	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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/1/2016	5	2	
3	Grading	Grading	2/2/2016	2/5/2016	5	4	
4	Building Construction	Building Construction	2/6/2016	11/11/2016	5	200	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

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

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

**Acres of Paving: 0**

**Residential Indoor: 137,244; Residential Outdoor: 45,748; 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	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
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
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	49.00	7.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5629</b>	<b>22.5629</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6827</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5628</b>	<b>22.5628</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6826</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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	4.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0723	0.0723	0.0000	0.0000	0.0724
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0723</b>	<b>0.0723</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0724</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-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

#### 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	4.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0723	0.0723	0.0000	0.0000	0.0724
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0723</b>	<b>0.0723</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0724</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					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710
<b>Total</b>	<b>3.9800e-003</b>	<b>0.0421</b>	<b>0.0273</b>	<b>3.0000e-005</b>	<b>9.8300e-003</b>	<b>2.2800e-003</b>	<b>0.0121</b>	<b>5.0500e-003</b>	<b>2.1000e-003</b>	<b>7.1500e-003</b>	<b>0.0000</b>	<b>2.6541</b>	<b>2.6541</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.6710</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	8.0000e-005	7.9000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1447	0.1447	1.0000e-005	0.0000	0.1448
<b>Total</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1447</b>	<b>0.1447</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1448</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					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710
<b>Total</b>	<b>3.9800e-003</b>	<b>0.0421</b>	<b>0.0273</b>	<b>3.0000e-005</b>	<b>9.8300e-003</b>	<b>2.2800e-003</b>	<b>0.0121</b>	<b>5.0500e-003</b>	<b>2.1000e-003</b>	<b>7.1500e-003</b>	<b>0.0000</b>	<b>2.6541</b>	<b>2.6541</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.6710</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	8.0000e-005	7.9000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1447	0.1447	1.0000e-005	0.0000	0.1448
<b>Total</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1447</b>	<b>0.1447</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1448</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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6956	185.6956	0.0408	0.0000	186.5527
<b>Total</b>	<b>0.3292</b>	<b>2.0546</b>	<b>1.4707</b>	<b>2.2000e-003</b>		<b>0.1366</b>	<b>0.1366</b>		<b>0.1318</b>	<b>0.1318</b>	<b>0.0000</b>	<b>185.6956</b>	<b>185.6956</b>	<b>0.0408</b>	<b>0.0000</b>	<b>186.5527</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
Vendor	0.0101	0.0691	0.1288	1.6000e-004	4.4700e-003	1.0000e-003	5.4700e-003	1.2800e-003	9.1000e-004	2.2000e-003	0.0000	14.5447	14.5447	1.2000e-004	0.0000	14.5471
Worker	0.0177	0.0242	0.2430	5.8000e-004	0.0445	4.1000e-004	0.0449	0.0118	3.7000e-004	0.0122	0.0000	44.2993	44.2993	2.3500e-003	0.0000	44.3486
<b>Total</b>	<b>0.0277</b>	<b>0.0933</b>	<b>0.3718</b>	<b>7.4000e-004</b>	<b>0.0489</b>	<b>1.4100e-003</b>	<b>0.0503</b>	<b>0.0131</b>	<b>1.2800e-003</b>	<b>0.0144</b>	<b>0.0000</b>	<b>58.8440</b>	<b>58.8440</b>	<b>2.4700e-003</b>	<b>0.0000</b>	<b>58.8957</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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6954	185.6954	0.0408	0.0000	186.5525
<b>Total</b>	<b>0.3292</b>	<b>2.0546</b>	<b>1.4707</b>	<b>2.2000e-003</b>		<b>0.1366</b>	<b>0.1366</b>		<b>0.1318</b>	<b>0.1318</b>	<b>0.0000</b>	<b>185.6954</b>	<b>185.6954</b>	<b>0.0408</b>	<b>0.0000</b>	<b>186.5525</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	0.0101	0.0691	0.1288	1.6000e-004	4.4700e-003	1.0000e-003	5.4700e-003	1.2800e-003	9.1000e-004	2.2000e-003	0.0000	14.5447	14.5447	1.2000e-004	0.0000	14.5471
Worker	0.0177	0.0242	0.2430	5.8000e-004	0.0445	4.1000e-004	0.0449	0.0118	3.7000e-004	0.0122	0.0000	44.2993	44.2993	2.3500e-003	0.0000	44.3486
<b>Total</b>	<b>0.0277</b>	<b>0.0933</b>	<b>0.3718</b>	<b>7.4000e-004</b>	<b>0.0489</b>	<b>1.4100e-003</b>	<b>0.0503</b>	<b>0.0131</b>	<b>1.2800e-003</b>	<b>0.0144</b>	<b>0.0000</b>	<b>58.8440</b>	<b>58.8440</b>	<b>2.4700e-003</b>	<b>0.0000</b>	<b>58.8957</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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.4400e-003</b>	<b>0.0660</b>	<b>0.0454</b>	<b>7.0000e-005</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>6.2071</b>	<b>6.2071</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>6.2457</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	2.3000e-004	3.2000e-004	3.2200e-003	1.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5876	0.5876	3.0000e-005	0.0000	0.5883
<b>Total</b>	<b>2.3000e-004</b>	<b>3.2000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5876</b>	<b>0.5876</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5883</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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.4400e-003</b>	<b>0.0660</b>	<b>0.0454</b>	<b>7.0000e-005</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>6.2071</b>	<b>6.2071</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>6.2457</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	2.3000e-004	3.2000e-004	3.2200e-003	1.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5876	0.5876	3.0000e-005	0.0000	0.5883
<b>Total</b>	<b>2.3000e-004</b>	<b>3.2000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5876</b>	<b>0.5876</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5883</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	1.0602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
<b>Total</b>	<b>1.0621</b>	<b>0.0119</b>	<b>9.4200e-003</b>	<b>1.0000e-005</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.2798</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
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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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	1.0602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
<b>Total</b>	<b>1.0621</b>	<b>0.0119</b>	<b>9.4200e-003</b>	<b>1.0000e-005</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.2798</b>





**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

**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	66.8884	66.8884	3.0200e-003	6.3000e-004	67.1459
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	66.8884	66.8884	3.0200e-003	6.3000e-004	67.1459
NaturalGas Mitigated	2.4700e-003	0.0211	8.9900e-003	1.3000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.4739	24.4739	4.7000e-004	4.5000e-004	24.6229
NaturalGas Unmitigated	2.4700e-003	0.0211	8.9900e-003	1.3000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.4739	24.4739	4.7000e-004	4.5000e-004	24.6229

**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					
Apartments Mid Rise	458624	2.4700e-003	0.0211	8.9900e-003	1.3000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.4739	24.4739	4.7000e-004	4.5000e-004	24.6229
<b>Total</b>		<b>2.4700e-003</b>	<b>0.0211</b>	<b>8.9900e-003</b>	<b>1.3000e-004</b>		<b>1.7100e-003</b>	<b>1.7100e-003</b>		<b>1.7100e-003</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>24.4739</b>	<b>24.4739</b>	<b>4.7000e-004</b>	<b>4.5000e-004</b>	<b>24.6229</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					
Apartments Mid Rise	458624	2.4700e-003	0.0211	8.9900e-003	1.3000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.4739	24.4739	4.7000e-004	4.5000e-004	24.6229
<b>Total</b>		<b>2.4700e-003</b>	<b>0.0211</b>	<b>8.9900e-003</b>	<b>1.3000e-004</b>		<b>1.7100e-003</b>	<b>1.7100e-003</b>		<b>1.7100e-003</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>24.4739</b>	<b>24.4739</b>	<b>4.7000e-004</b>	<b>4.5000e-004</b>	<b>24.6229</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	229927	66.8884	3.0200e-003	6.3000e-004	67.1459
<b>Total</b>		<b>66.8884</b>	<b>3.0200e-003</b>	<b>6.3000e-004</b>	<b>67.1459</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	229927	66.8884	3.0200e-003	6.3000e-004	67.1459
<b>Total</b>		<b>66.8884</b>	<b>3.0200e-003</b>	<b>6.3000e-004</b>	<b>67.1459</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	0.3370	7.6100e-003	0.5597	3.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	0.7884	0.7884	1.2600e-003	0.0000	0.8149
Unmitigated	0.3370	7.6100e-003	0.5597	3.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	0.7884	0.7884	1.2600e-003	0.0000	0.8149

### 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	0.0589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2539					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0242	7.6100e-003	0.5597	3.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	0.7884	0.7884	1.2600e-003	0.0000	0.8149
<b>Total</b>	<b>0.3370</b>	<b>7.6100e-003</b>	<b>0.5597</b>	<b>3.0000e-005</b>		<b>2.3600e-003</b>	<b>2.3600e-003</b>		<b>2.3600e-003</b>	<b>2.3600e-003</b>	<b>0.0000</b>	<b>0.7884</b>	<b>0.7884</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>0.8149</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	0.0589					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2539					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0242	7.6100e-003	0.5597	3.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	0.7884	0.7884	1.2600e-003	0.0000	0.8149
<b>Total</b>	<b>0.3370</b>	<b>7.6100e-003</b>	<b>0.5597</b>	<b>3.0000e-005</b>		<b>2.3600e-003</b>	<b>2.3600e-003</b>		<b>2.3600e-003</b>	<b>2.3600e-003</b>	<b>0.0000</b>	<b>0.7884</b>	<b>0.7884</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>0.8149</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	10.7285	0.1384	3.3400e-003	14.6705
Unmitigated	10.7285	0.1384	3.3500e-003	14.6727

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.23501 / 2.6699	10.7285	0.1384	3.3500e-003	14.6727
<b>Total</b>		<b>10.7285</b>	<b>0.1384</b>	<b>3.3500e-003</b>	<b>14.6727</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.23501 / 2.6699	10.7285	0.1384	3.3400e-003	14.6705
<b>Total</b>		<b>10.7285</b>	<b>0.1384</b>	<b>3.3400e-003</b>	<b>14.6705</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.0694	0.3587	0.0000	13.6020
Unmitigated	6.0694	0.3587	0.0000	13.6020

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	29.9	6.0694	0.3587	0.0000	13.6020
<b>Total</b>		<b>6.0694</b>	<b>0.3587</b>	<b>0.0000</b>	<b>13.6020</b>



## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	29.9	6.0694	0.3587	0.0000	13.6020
<b>Total</b>		<b>6.0694</b>	<b>0.3587</b>	<b>0.0000</b>	<b>13.6020</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 27**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	147.51	1000sqft	3.39	147,509.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 4.407 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	1990
tblVehicleTrips	ST_TR	11.23	4.41
tblVehicleTrips	SU_TR	1.21	4.41
tblVehicleTrips	WD_TR	27.49	4.41

## 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	0.7476	2.0000e-005	4.4200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.6400e-003	2.6400e-003	5.0000e-005	0.0000	3.6800e-003
Energy	0.0216	0.1963	0.1649	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	656.1384	656.1384	0.0241	8.0600e-003	659.1422
Mobile	4.1325	5.3175	48.4082	0.3580	0.5548	0.0622	0.6169	0.1611	0.0622	0.2233	0.0000	866.7311	866.7311	0.2778	0.0000	872.5647
Waste						0.0000	0.0000		0.0000	0.0000	38.9256	0.0000	38.9256	2.3004	0.0000	87.2347
Water						0.0000	0.0000		0.0000	0.0000	2.2954	22.9116	25.2070	0.2368	5.7800e-003	31.9719
<b>Total</b>	<b>4.9016</b>	<b>5.5139</b>	<b>48.5776</b>	<b>0.3591</b>	<b>0.5548</b>	<b>0.0771</b>	<b>0.6319</b>	<b>0.1611</b>	<b>0.0771</b>	<b>0.2382</b>	<b>41.2210</b>	<b>1,545.7837</b>	<b>1,587.0047</b>	<b>2.8392</b>	<b>0.0138</b>	<b>1,650.9172</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	0.7476	2.0000e-005	4.4200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.6400e-003	2.6400e-003	5.0000e-005	0.0000	3.6800e-003
Energy	0.0216	0.1963	0.1649	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	656.1384	656.1384	0.0241	8.0600e-003	659.1422
Mobile	4.1325	5.3175	48.4082	0.3580	0.5548	0.0622	0.6169	0.1611	0.0622	0.2233	0.0000	866.7311	866.7311	0.2778	0.0000	872.5647
Waste						0.0000	0.0000		0.0000	0.0000	38.9256	0.0000	38.9256	2.3004	0.0000	87.2347
Water						0.0000	0.0000		0.0000	0.0000	2.2954	22.9116	25.2070	0.2368	5.7700e-003	31.9682
<b>Total</b>	<b>4.9016</b>	<b>5.5139</b>	<b>48.5776</b>	<b>0.3591</b>	<b>0.5548</b>	<b>0.0771</b>	<b>0.6319</b>	<b>0.1611</b>	<b>0.0771</b>	<b>0.2382</b>	<b>41.2210</b>	<b>1,545.7837</b>	<b>1,587.0047</b>	<b>2.8391</b>	<b>0.0138</b>	<b>1,650.9135</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	0.07	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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/4/2016	5	5	
3	Grading	Grading	2/5/2016	2/16/2016	5	8	
4	Building Construction	Building Construction	2/17/2016	1/3/2017	5	230	
5	Paving	Paving	1/4/2017	1/27/2017	5	18	
6	Architectural Coating	Architectural Coating	1/28/2017	2/22/2017	5	18	

**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: 221,264; Non-Residential Outdoor: 73,755 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	62.00	24.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	0.0429	0.4566	0.3503	4.0000e-004		0.0229	0.0229		0.0214	0.0214	0.0000	37.0974	37.0974	0.0101	0.0000	37.3092
<b>Total</b>	<b>0.0429</b>	<b>0.4566</b>	<b>0.3503</b>	<b>4.0000e-004</b>		<b>0.0229</b>	<b>0.0229</b>		<b>0.0214</b>	<b>0.0214</b>	<b>0.0000</b>	<b>37.0974</b>	<b>37.0974</b>	<b>0.0101</b>	<b>0.0000</b>	<b>37.3092</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	0.0000	0.0000	0.0000	0.0000	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	5.4000e-004	7.4000e-004	7.4400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.3561	1.3561	7.0000e-005	0.0000	1.3576
<b>Total</b>	<b>5.4000e-004</b>	<b>7.4000e-004</b>	<b>7.4400e-003</b>	<b>2.0000e-005</b>	<b>1.3600e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.3561</b>	<b>1.3561</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.3576</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	0.0429	0.4566	0.3503	4.0000e-004		0.0229	0.0229		0.0214	0.0214	0.0000	37.0973	37.0973	0.0101	0.0000	37.3092
<b>Total</b>	<b>0.0429</b>	<b>0.4566</b>	<b>0.3503</b>	<b>4.0000e-004</b>		<b>0.0229</b>	<b>0.0229</b>		<b>0.0214</b>	<b>0.0214</b>	<b>0.0000</b>	<b>37.0973</b>	<b>37.0973</b>	<b>0.0101</b>	<b>0.0000</b>	<b>37.3092</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	0.0000	0.0000	0.0000	0.0000	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	5.4000e-004	7.4000e-004	7.4400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.3561	1.3561	7.0000e-005	0.0000	1.3576
<b>Total</b>	<b>5.4000e-004</b>	<b>7.4000e-004</b>	<b>7.4400e-003</b>	<b>2.0000e-005</b>	<b>1.3600e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.3561</b>	<b>1.3561</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.3576</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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1366	0.1028	1.0000e-004		7.3500e-003	7.3500e-003		6.7600e-003	6.7600e-003	0.0000	9.2193	9.2193	2.7800e-003	0.0000	9.2777
<b>Total</b>	<b>0.0127</b>	<b>0.1366</b>	<b>0.1028</b>	<b>1.0000e-004</b>	<b>0.0452</b>	<b>7.3500e-003</b>	<b>0.0525</b>	<b>0.0248</b>	<b>6.7600e-003</b>	<b>0.0316</b>	<b>0.0000</b>	<b>9.2193</b>	<b>9.2193</b>	<b>2.7800e-003</b>	<b>0.0000</b>	<b>9.2777</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	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1366	0.1028	1.0000e-004		7.3500e-003	7.3500e-003		6.7600e-003	6.7600e-003	0.0000	9.2193	9.2193	2.7800e-003	0.0000	9.2777
<b>Total</b>	<b>0.0127</b>	<b>0.1366</b>	<b>0.1028</b>	<b>1.0000e-004</b>	<b>0.0452</b>	<b>7.3500e-003</b>	<b>0.0525</b>	<b>0.0248</b>	<b>6.7600e-003</b>	<b>0.0316</b>	<b>0.0000</b>	<b>9.2193</b>	<b>9.2193</b>	<b>2.7800e-003</b>	<b>0.0000</b>	<b>9.2777</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	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1538	0.1043	1.2000e-004		8.7900e-003	8.7900e-003		8.0900e-003	8.0900e-003	0.0000	11.2266	11.2266	3.3900e-003	0.0000	11.2977
<b>Total</b>	<b>0.0147</b>	<b>0.1538</b>	<b>0.1043</b>	<b>1.2000e-004</b>	<b>0.0262</b>	<b>8.7900e-003</b>	<b>0.0350</b>	<b>0.0135</b>	<b>8.0900e-003</b>	<b>0.0216</b>	<b>0.0000</b>	<b>11.2266</b>	<b>11.2266</b>	<b>3.3900e-003</b>	<b>0.0000</b>	<b>11.2977</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	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.2000e-004	3.0000e-004	2.9800e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.5424	0.5424	3.0000e-005	0.0000	0.5430	
<b>Total</b>	<b>2.2000e-004</b>	<b>3.0000e-004</b>	<b>2.9800e-003</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.5424</b>	<b>0.5424</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5430</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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1538	0.1043	1.2000e-004		8.7900e-003	8.7900e-003		8.0900e-003	8.0900e-003	0.0000	11.2265	11.2265	3.3900e-003	0.0000	11.2977	
<b>Total</b>	<b>0.0147</b>	<b>0.1538</b>	<b>0.1043</b>	<b>1.2000e-004</b>	<b>0.0262</b>	<b>8.7900e-003</b>	<b>0.0350</b>	<b>0.0135</b>	<b>8.0900e-003</b>	<b>0.0216</b>	<b>0.0000</b>	<b>11.2265</b>	<b>11.2265</b>	<b>3.3900e-003</b>	<b>0.0000</b>	<b>11.2977</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	0.0000	0.0000	0.0000	0.0000	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	2.2000e-004	3.0000e-004	2.9800e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.5424	0.5424	3.0000e-005	0.0000	0.5430
<b>Total</b>	<b>2.2000e-004</b>	<b>3.0000e-004</b>	<b>2.9800e-003</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.5424</b>	<b>0.5424</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5430</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	0.3883	3.2497	2.1098	3.0600e-003		0.2243	0.2243		0.2107	0.2107	0.0000	276.0551	276.0551	0.0685	0.0000	277.4929
<b>Total</b>	<b>0.3883</b>	<b>3.2497</b>	<b>2.1098</b>	<b>3.0600e-003</b>		<b>0.2243</b>	<b>0.2243</b>		<b>0.2107</b>	<b>0.2107</b>	<b>0.0000</b>	<b>276.0551</b>	<b>276.0551</b>	<b>0.0685</b>	<b>0.0000</b>	<b>277.4929</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
Vendor	0.0393	0.2700	0.5032	6.3000e-004	0.0175	3.8900e-003	0.0214	5.0100e-003	3.5800e-003	8.5800e-003	0.0000	56.8490	56.8490	4.5000e-004	0.0000	56.8585
Worker	0.0255	0.0350	0.3505	8.4000e-004	0.0641	5.9000e-004	0.0647	0.0171	5.4000e-004	0.0176	0.0000	63.8995	63.8995	3.3900e-003	0.0000	63.9706
<b>Total</b>	<b>0.0648</b>	<b>0.3050</b>	<b>0.8538</b>	<b>1.4700e-003</b>	<b>0.0816</b>	<b>4.4800e-003</b>	<b>0.0861</b>	<b>0.0221</b>	<b>4.1200e-003</b>	<b>0.0262</b>	<b>0.0000</b>	<b>120.7485</b>	<b>120.7485</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>120.8291</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	0.3883	3.2497	2.1098	3.0600e-003		0.2243	0.2243		0.2107	0.2107	0.0000	276.0548	276.0548	0.0685	0.0000	277.4926
<b>Total</b>	<b>0.3883</b>	<b>3.2497</b>	<b>2.1098</b>	<b>3.0600e-003</b>		<b>0.2243</b>	<b>0.2243</b>		<b>0.2107</b>	<b>0.2107</b>	<b>0.0000</b>	<b>276.0548</b>	<b>276.0548</b>	<b>0.0685</b>	<b>0.0000</b>	<b>277.4926</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	0.0393	0.2700	0.5032	6.3000e-004	0.0175	3.8900e-003	0.0214	5.0100e-003	3.5800e-003	8.5800e-003	0.0000	56.8490	56.8490	4.5000e-004	0.0000	56.8585
Worker	0.0255	0.0350	0.3505	8.4000e-004	0.0641	5.9000e-004	0.0647	0.0171	5.4000e-004	0.0176	0.0000	63.8995	63.8995	3.3900e-003	0.0000	63.9706
<b>Total</b>	<b>0.0648</b>	<b>0.3050</b>	<b>0.8538</b>	<b>1.4700e-003</b>	<b>0.0816</b>	<b>4.4800e-003</b>	<b>0.0861</b>	<b>0.0221</b>	<b>4.1200e-003</b>	<b>0.0262</b>	<b>0.0000</b>	<b>120.7485</b>	<b>120.7485</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>120.8291</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.1000e-003	0.0264	0.0181	3.0000e-005		1.7800e-003	1.7800e-003		1.6700e-003	1.6700e-003	0.0000	2.3948	2.3948	5.9000e-004	0.0000	2.4072
<b>Total</b>	<b>3.1000e-003</b>	<b>0.0264</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>1.7800e-003</b>	<b>1.7800e-003</b>		<b>1.6700e-003</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>2.3948</b>	<b>2.3948</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>2.4072</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	3.1000e-004	2.1300e-003	4.1700e-003	1.0000e-005	1.5000e-004	3.0000e-005	1.8000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.4912	0.4912	0.0000	0.0000	0.4913
Worker	2.0000e-004	2.8000e-004	2.7800e-003	1.0000e-005	5.6000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5391	0.5391	3.0000e-005	0.0000	0.5397
<b>Total</b>	<b>5.1000e-004</b>	<b>2.4100e-003</b>	<b>6.9500e-003</b>	<b>2.0000e-005</b>	<b>7.1000e-004</b>	<b>3.0000e-005</b>	<b>7.5000e-004</b>	<b>1.9000e-004</b>	<b>3.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0303</b>	<b>1.0303</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0309</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	3.1000e-003	0.0264	0.0181	3.0000e-005		1.7800e-003	1.7800e-003		1.6700e-003	1.6700e-003	0.0000	2.3948	2.3948	5.9000e-004	0.0000	2.4072
<b>Total</b>	<b>3.1000e-003</b>	<b>0.0264</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>1.7800e-003</b>	<b>1.7800e-003</b>		<b>1.6700e-003</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>2.3948</b>	<b>2.3948</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>2.4072</b>

### 3.5 Building Construction - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	3.1000e-004	2.1300e-003	4.1700e-003	1.0000e-005	1.5000e-004	3.0000e-005	1.8000e-004	4.0000e-005	3.0000e-005	7.0000e-005	0.0000	0.4912	0.4912	0.0000	0.0000	0.4913
Worker	2.0000e-004	2.8000e-004	2.7800e-003	1.0000e-005	5.6000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5391	0.5391	3.0000e-005	0.0000	0.5397
<b>Total</b>	<b>5.1000e-004</b>	<b>2.4100e-003</b>	<b>6.9500e-003</b>	<b>2.0000e-005</b>	<b>7.1000e-004</b>	<b>3.0000e-005</b>	<b>7.5000e-004</b>	<b>1.9000e-004</b>	<b>3.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0303</b>	<b>1.0303</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0309</b>

### 3.6 Paving - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0149	0.1512	0.1124	1.7000e-004		9.0500e-003	9.0500e-003		8.3400e-003	8.3400e-003	0.0000	15.2992	15.2992	4.5600e-003	0.0000	15.3950
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0149</b>	<b>0.1512</b>	<b>0.1124</b>	<b>1.7000e-004</b>		<b>9.0500e-003</b>	<b>9.0500e-003</b>		<b>8.3400e-003</b>	<b>8.3400e-003</b>	<b>0.0000</b>	<b>15.2992</b>	<b>15.2992</b>	<b>4.5600e-003</b>	<b>0.0000</b>	<b>15.3950</b>

### 3.6 Paving - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	5.9000e-004	8.1000e-004	8.0700e-003	2.0000e-005	1.6300e-003	1.0000e-005	1.6500e-003	4.3000e-004	1.0000e-005	4.5000e-004	0.0000	1.5651	1.5651	8.0000e-005	0.0000	1.5668
<b>Total</b>	<b>5.9000e-004</b>	<b>8.1000e-004</b>	<b>8.0700e-003</b>	<b>2.0000e-005</b>	<b>1.6300e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.3000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.5651</b>	<b>1.5651</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.5668</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	0.0149	0.1512	0.1124	1.7000e-004		9.0500e-003	9.0500e-003		8.3400e-003	8.3400e-003	0.0000	15.2991	15.2991	4.5600e-003	0.0000	15.3950
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0149</b>	<b>0.1512</b>	<b>0.1124</b>	<b>1.7000e-004</b>		<b>9.0500e-003</b>	<b>9.0500e-003</b>		<b>8.3400e-003</b>	<b>8.3400e-003</b>	<b>0.0000</b>	<b>15.2991</b>	<b>15.2991</b>	<b>4.5600e-003</b>	<b>0.0000</b>	<b>15.3950</b>

### 3.6 Paving - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	5.9000e-004	8.1000e-004	8.0700e-003	2.0000e-005	1.6300e-003	1.0000e-005	1.6500e-003	4.3000e-004	1.0000e-005	4.5000e-004	0.0000	1.5651	1.5651	8.0000e-005	0.0000	1.5668
<b>Total</b>	<b>5.9000e-004</b>	<b>8.1000e-004</b>	<b>8.0700e-003</b>	<b>2.0000e-005</b>	<b>1.6300e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.3000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.5651</b>	<b>1.5651</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.5668</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7093					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030
<b>Total</b>	<b>1.7123</b>	<b>0.0197</b>	<b>0.0168</b>	<b>3.0000e-005</b>		<b>1.5600e-003</b>	<b>1.5600e-003</b>		<b>1.5600e-003</b>	<b>1.5600e-003</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.3030</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.5000e-004	4.8000e-004	4.8400e-003	1.0000e-005	9.8000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9390	0.9390	5.0000e-005	0.0000	0.9401	
<b>Total</b>	<b>3.5000e-004</b>	<b>4.8000e-004</b>	<b>4.8400e-003</b>	<b>1.0000e-005</b>	<b>9.8000e-004</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.9390</b>	<b>0.9390</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9401</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	1.7093					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030	
<b>Total</b>	<b>1.7123</b>	<b>0.0197</b>	<b>0.0168</b>	<b>3.0000e-005</b>		<b>1.5600e-003</b>	<b>1.5600e-003</b>		<b>1.5600e-003</b>	<b>1.5600e-003</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.3030</b>	

### 3.7 Architectural Coating - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	3.5000e-004	4.8000e-004	4.8400e-003	1.0000e-005	9.8000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9390	0.9390	5.0000e-005	0.0000	0.9401
<b>Total</b>	<b>3.5000e-004</b>	<b>4.8000e-004</b>	<b>4.8400e-003</b>	<b>1.0000e-005</b>	<b>9.8000e-004</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.9390</b>	<b>0.9390</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9401</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	4.1325	5.3175	48.4082	0.3580	0.5548	0.0622	0.6169	0.1611	0.0622	0.2233	0.0000	866.7311	866.7311	0.2778	0.0000	872.5647
Unmitigated	4.1325	5.3175	48.4082	0.3580	0.5548	0.0622	0.6169	0.1611	0.0622	0.2233	0.0000	866.7311	866.7311	0.2778	0.0000	872.5647

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	650.07	650.07	650.07	1,650,882	1,650,882
Total	650.07	650.07	650.07	1,650,882	1,650,882

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

### 5.0 Energy Detail

#### 4.4 Fleet Mix

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Historical Energy Use: N

### 5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	442.4233	442.4233	0.0200	4.1400e-003	444.1265
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	442.4233	442.4233	0.0200	4.1400e-003	444.1265
NaturalGas Mitigated	0.0216	0.1963	0.1649	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.7151	213.7151	4.1000e-003	3.9200e-003	215.0157
NaturalGas Unmitigated	0.0216	0.1963	0.1649	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.7151	213.7151	4.1000e-003	3.9200e-003	215.0157

**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					
Junior College (2Yr)	4.00487e+006	0.0216	0.1963	0.1649	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.7151	213.7151	4.1000e-003	3.9200e-003	215.0157
<b>Total</b>		<b>0.0216</b>	<b>0.1963</b>	<b>0.1649</b>	<b>1.1800e-003</b>		<b>0.0149</b>	<b>0.0149</b>		<b>0.0149</b>	<b>0.0149</b>	<b>0.0000</b>	<b>213.7151</b>	<b>213.7151</b>	<b>4.1000e-003</b>	<b>3.9200e-003</b>	<b>215.0157</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					
Junior College (2Yr)	4.00487e+006	0.0216	0.1963	0.1649	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.7151	213.7151	4.1000e-003	3.9200e-003	215.0157
<b>Total</b>		<b>0.0216</b>	<b>0.1963</b>	<b>0.1649</b>	<b>1.1800e-003</b>		<b>0.0149</b>	<b>0.0149</b>		<b>0.0149</b>	<b>0.0149</b>	<b>0.0000</b>	<b>213.7151</b>	<b>213.7151</b>	<b>4.1000e-003</b>	<b>3.9200e-003</b>	<b>215.0157</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	1.52082e+006	442.4233	0.0200	4.1400e-003	444.1265
<b>Total</b>		<b>442.4233</b>	<b>0.0200</b>	<b>4.1400e-003</b>	<b>444.1265</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	1.52082e+006	442.4233	0.0200	4.1400e-003	444.1265
<b>Total</b>		<b>442.4233</b>	<b>0.0200</b>	<b>4.1400e-003</b>	<b>444.1265</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	0.7476	2.0000e-005	4.4200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.6400e-003	2.6400e-003	5.0000e-005	0.0000	3.6800e-003
Unmitigated	0.7476	2.0000e-005	4.4200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.6400e-003	2.6400e-003	5.0000e-005	0.0000	3.6800e-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	0.1709					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5761					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.8000e-004	2.0000e-005	4.4200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.6400e-003	2.6400e-003	5.0000e-005	0.0000	3.6800e-003
<b>Total</b>	<b>0.7476</b>	<b>2.0000e-005</b>	<b>4.4200e-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>0.0000</b>	<b>2.6400e-003</b>	<b>2.6400e-003</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>3.6800e-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	0.1709					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5761					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.8000e-004	2.0000e-005	4.4200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.6400e-003	2.6400e-003	5.0000e-005	0.0000	3.6800e-003
<b>Total</b>	<b>0.7476</b>	<b>2.0000e-005</b>	<b>4.4200e-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>0.0000</b>	<b>2.6400e-003</b>	<b>2.6400e-003</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>3.6800e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	25.2070	0.2368	5.7700e-003	31.9682
Unmitigated	25.2070	0.2368	5.7800e-003	31.9719

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	7.23522 / 11.3166	25.2070	0.2368	5.7800e-003	31.9719
<b>Total</b>		<b>25.2070</b>	<b>0.2368</b>	<b>5.7800e-003</b>	<b>31.9719</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	7.23522 / 11.3166	25.2070	0.2368	5.7700e-003	31.9682
<b>Total</b>		<b>25.2070</b>	<b>0.2368</b>	<b>5.7700e-003</b>	<b>31.9682</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	38.9256	2.3004	0.0000	87.2347
Unmitigated	38.9256	2.3004	0.0000	87.2347

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	191.76	38.9256	2.3004	0.0000	87.2347
<b>Total</b>		<b>38.9256</b>	<b>2.3004</b>	<b>0.0000</b>	<b>87.2347</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	191.76	38.9256	2.3004	0.0000	87.2347
<b>Total</b>		<b>38.9256</b>	<b>2.3004</b>	<b>0.0000</b>	<b>87.2347</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 23**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	37.73	1000sqft	0.87	37,730.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2000
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 4.506 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 4/19/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2000
tblVehicleTrips	ST_TR	11.23	6.36
tblVehicleTrips	SU_TR	1.21	6.36
tblVehicleTrips	WD_TR	27.49	6.36

## 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	0.1912	0.0000	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.7000e-004
Energy	5.5200e-003	0.0502	0.0422	3.0000e-004		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.0000	167.8277	167.8277	6.1600e-003	2.0600e-003	168.5961
Mobile	0.6985	1.2306	7.6198	8.7300e-003	0.2048	0.0181	0.2229	0.0594	0.0181	0.0775	0.0000	328.1550	328.1550	0.0550	0.0000	329.3103
Waste						0.0000	0.0000		0.0000	0.0000	9.9567	0.0000	9.9567	0.5884	0.0000	22.3136
Water						0.0000	0.0000		0.0000	0.0000	0.5871	5.8603	6.4474	0.0606	1.4800e-003	8.1777
<b>Total</b>	<b>0.8952</b>	<b>1.2808</b>	<b>7.6626</b>	<b>9.0300e-003</b>	<b>0.2048</b>	<b>0.0219</b>	<b>0.2267</b>	<b>0.0594</b>	<b>0.0219</b>	<b>0.0814</b>	<b>10.5438</b>	<b>501.8437</b>	<b>512.3876</b>	<b>0.7102</b>	<b>3.5400e-003</b>	<b>528.3985</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	0.1912	0.0000	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.7000e-004
Energy	5.5200e-003	0.0502	0.0422	3.0000e-004		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.0000	167.8277	167.8277	6.1600e-003	2.0600e-003	168.5961
Mobile	0.6985	1.2306	7.6198	8.7300e-003	0.2048	0.0181	0.2229	0.0594	0.0181	0.0775	0.0000	328.1550	328.1550	0.0550	0.0000	329.3103
Waste						0.0000	0.0000		0.0000	0.0000	9.9567	0.0000	9.9567	0.5884	0.0000	22.3136
Water						0.0000	0.0000		0.0000	0.0000	0.5871	5.8603	6.4474	0.0606	1.4800e-003	8.1768
<b>Total</b>	<b>0.8952</b>	<b>1.2808</b>	<b>7.6626</b>	<b>9.0300e-003</b>	<b>0.2048</b>	<b>0.0219</b>	<b>0.2267</b>	<b>0.0594</b>	<b>0.0219</b>	<b>0.0814</b>	<b>10.5438</b>	<b>501.8437</b>	<b>512.3876</b>	<b>0.7102</b>	<b>3.5400e-003</b>	<b>528.3975</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>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>	<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	1/1/2016	1/14/2016	5	10	
2	Site Preparation	Site Preparation	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 56,595; Non-Residential Outdoor: 18,865 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	16.00	6.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>



**3.2 Demolition - 2016****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>

### 3.3 Site Preparation - 2016

#### 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.4 Grading - 2016

#### 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4584</b>	<b>53.4584</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7970</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.3100e-003	0.0296	0.0552	7.0000e-005	1.9200e-003	4.3000e-004	2.3400e-003	5.5000e-004	3.9000e-004	9.4000e-004	0.0000	6.2334	6.2334	5.0000e-005	0.0000	6.2345
Worker	2.8800e-003	3.9600e-003	0.0397	9.0000e-005	7.2600e-003	7.0000e-005	7.3200e-003	1.9300e-003	6.0000e-005	1.9900e-003	0.0000	7.2325	7.2325	3.8000e-004	0.0000	7.2406
<b>Total</b>	<b>7.1900e-003</b>	<b>0.0336</b>	<b>0.0949</b>	<b>1.6000e-004</b>	<b>9.1800e-003</b>	<b>5.0000e-004</b>	<b>9.6600e-003</b>	<b>2.4800e-003</b>	<b>4.5000e-004</b>	<b>2.9300e-003</b>	<b>0.0000</b>	<b>13.4660</b>	<b>13.4660</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>13.4751</b>

### 3.5 Building Construction - 2016

#### 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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4583</b>	<b>53.4583</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7969</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.3100e-003	0.0296	0.0552	7.0000e-005	1.9200e-003	4.3000e-004	2.3400e-003	5.5000e-004	3.9000e-004	9.4000e-004	0.0000	6.2334	6.2334	5.0000e-005	0.0000	6.2345
Worker	2.8800e-003	3.9600e-003	0.0397	9.0000e-005	7.2600e-003	7.0000e-005	7.3200e-003	1.9300e-003	6.0000e-005	1.9900e-003	0.0000	7.2325	7.2325	3.8000e-004	0.0000	7.2406
<b>Total</b>	<b>7.1900e-003</b>	<b>0.0336</b>	<b>0.0949</b>	<b>1.6000e-004</b>	<b>9.1800e-003</b>	<b>5.0000e-004</b>	<b>9.6600e-003</b>	<b>2.4800e-003</b>	<b>4.5000e-004</b>	<b>2.9300e-003</b>	<b>0.0000</b>	<b>13.4660</b>	<b>13.4660</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>13.4751</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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>



**3.6 Paving - 2016****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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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	0.4372					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>0.4381</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>

#### 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	3.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0678	0.0678	0.0000	0.0000	0.0679
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0679</b>

### 3.7 Architectural Coating - 2016

#### 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	0.4372					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>0.4381</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>

#### 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	3.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0678	0.0678	0.0000	0.0000	0.0679
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0678</b>	<b>0.0678</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0679</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	0.6985	1.2306	7.6198	8.7300e-003	0.2048	0.0181	0.2229	0.0594	0.0181	0.0775	0.0000	328.1550	328.1550	0.0550	0.0000	329.3103
Unmitigated	0.6985	1.2306	7.6198	8.7300e-003	0.2048	0.0181	0.2229	0.0594	0.0181	0.0775	0.0000	328.1550	328.1550	0.0550	0.0000	329.3103

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	239.96	239.96	239.96	609,394	609,394
Total	239.96	239.96	239.96	609,394	609,394

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.630142	0.126516	0.135380	0.044811	0.004048	0.008281	0.028653	0.003029	0.001699	0.010368	0.005318	0.000926	0.000829

### 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	113.1635	113.1635	5.1200e-003	1.0600e-003	113.5991
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	113.1635	113.1635	5.1200e-003	1.0600e-003	113.5991
NaturalGas Mitigated	5.5200e-003	0.0502	0.0422	3.0000e-004		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.0000	54.6643	54.6643	1.0500e-003	1.0000e-003	54.9969
NaturalGas Unmitigated	5.5200e-003	0.0502	0.0422	3.0000e-004		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.0000	54.6643	54.6643	1.0500e-003	1.0000e-003	54.9969

### 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					
Junior College (2Yr)	1.02437e+006	5.5200e-003	0.0502	0.0422	3.0000e-004		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.0000	54.6643	54.6643	1.0500e-003	1.0000e-003	54.9969
<b>Total</b>		<b>5.5200e-003</b>	<b>0.0502</b>	<b>0.0422</b>	<b>3.0000e-004</b>		<b>3.8200e-003</b>	<b>3.8200e-003</b>		<b>3.8200e-003</b>	<b>3.8200e-003</b>	<b>0.0000</b>	<b>54.6643</b>	<b>54.6643</b>	<b>1.0500e-003</b>	<b>1.0000e-003</b>	<b>54.9969</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					
Junior College (2Yr)	1.02437e+006	5.5200e-003	0.0502	0.0422	3.0000e-004		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.0000	54.6643	54.6643	1.0500e-003	1.0000e-003	54.9969
<b>Total</b>		<b>5.5200e-003</b>	<b>0.0502</b>	<b>0.0422</b>	<b>3.0000e-004</b>		<b>3.8200e-003</b>	<b>3.8200e-003</b>		<b>3.8200e-003</b>	<b>3.8200e-003</b>	<b>0.0000</b>	<b>54.6643</b>	<b>54.6643</b>	<b>1.0500e-003</b>	<b>1.0000e-003</b>	<b>54.9969</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	388996	113.1635	5.1200e-003	1.0600e-003	113.5991
<b>Total</b>		<b>113.1635</b>	<b>5.1200e-003</b>	<b>1.0600e-003</b>	<b>113.5991</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	388996	113.1635	5.1200e-003	1.0600e-003	113.5991
<b>Total</b>		<b>113.1635</b>	<b>5.1200e-003</b>	<b>1.0600e-003</b>	<b>113.5991</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	0.1912	0.0000	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.7000e-004
Unmitigated	0.1912	0.0000	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.7000e-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	0.0437					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1474					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	0.0000	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.7000e-004
<b>Total</b>	<b>0.1912</b>	<b>0.0000</b>	<b>6.1000e-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>6.7000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.7000e-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	0.0437					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1474					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	0.0000	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.7000e-004
<b>Total</b>	<b>0.1912</b>	<b>0.0000</b>	<b>6.1000e-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>6.7000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.7000e-004</b>

### 7.0 Water Detail



### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.4474	0.0606	1.4800e-003	8.1768
Unmitigated	6.4474	0.0606	1.4800e-003	8.1777

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	1.85062 / 2.89456	6.4474	0.0606	1.4800e-003	8.1777
<b>Total</b>		<b>6.4474</b>	<b>0.0606</b>	<b>1.4800e-003</b>	<b>8.1777</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	1.85062 / 2.89456	6.4474	0.0606	1.4800e-003	8.1768
<b>Total</b>		<b>6.4474</b>	<b>0.0606</b>	<b>1.4800e-003</b>	<b>8.1768</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.9567	0.5884	0.0000	22.3136
Unmitigated	9.9567	0.5884	0.0000	22.3136

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	49.05	9.9567	0.5884	0.0000	22.3136
<b>Total</b>		<b>9.9567</b>	<b>0.5884</b>	<b>0.0000</b>	<b>22.3136</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	49.05	9.9567	0.5884	0.0000	22.3136
<b>Total</b>		<b>9.9567</b>	<b>0.5884</b>	<b>0.0000</b>	<b>22.3136</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 28**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	190.07	1000sqft	4.36	190,066.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	1990
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 4.367 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	1990
tblVehicleTrips	ST_TR	11.23	4.37
tblVehicleTrips	SU_TR	1.21	4.37
tblVehicleTrips	WD_TR	27.49	4.37

## 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	0.9633	2.0000e-005	5.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4000e-003	3.4000e-003	6.0000e-005	0.0000	4.7400e-003
Energy	0.0278	0.2530	0.2125	1.5200e-003		0.0192	0.0192		0.0192	0.0192	0.0000	845.4373	845.4373	0.0311	0.0104	849.3077
Mobile	5.2765	6.7896	61.8094	0.4571	0.7083	0.0794	0.7877	0.2057	0.0794	0.2851	0.0000	1,106.6736	1,106.6736	0.3547	0.0000	1,114.1222
Waste						0.0000	0.0000		0.0000	0.0000	50.1570	0.0000	50.1570	2.9642	0.0000	112.4052
Water						0.0000	0.0000		0.0000	0.0000	2.9577	29.5221	32.4798	0.3051	7.4500e-003	41.1965
<b>Total</b>	<b>6.2676</b>	<b>7.0426</b>	<b>62.0276</b>	<b>0.4586</b>	<b>0.7083</b>	<b>0.0986</b>	<b>0.8070</b>	<b>0.2057</b>	<b>0.0986</b>	<b>0.3043</b>	<b>53.1147</b>	<b>1,981.6364</b>	<b>2,034.7511</b>	<b>3.6551</b>	<b>0.0178</b>	<b>2,117.0363</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	0.9633	2.0000e-005	5.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4000e-003	3.4000e-003	6.0000e-005	0.0000	4.7400e-003
Energy	0.0278	0.2530	0.2125	1.5200e-003		0.0192	0.0192		0.0192	0.0192	0.0000	845.4373	845.4373	0.0311	0.0104	849.3077
Mobile	5.2765	6.7896	61.8094	0.4571	0.7083	0.0794	0.7877	0.2057	0.0794	0.2851	0.0000	1,106.6736	1,106.6736	0.3547	0.0000	1,114.1222
Waste						0.0000	0.0000		0.0000	0.0000	50.1570	0.0000	50.1570	2.9642	0.0000	112.4052
Water						0.0000	0.0000		0.0000	0.0000	2.9577	29.5221	32.4798	0.3051	7.4400e-003	41.1918
<b>Total</b>	<b>6.2676</b>	<b>7.0426</b>	<b>62.0276</b>	<b>0.4586</b>	<b>0.7083</b>	<b>0.0986</b>	<b>0.8070</b>	<b>0.2057</b>	<b>0.0986</b>	<b>0.3043</b>	<b>53.1147</b>	<b>1,981.6364</b>	<b>2,034.7511</b>	<b>3.6551</b>	<b>0.0178</b>	<b>2,117.0316</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	0.06	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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/4/2016	5	5	
3	Grading	Grading	2/5/2016	2/16/2016	5	8	
4	Building Construction	Building Construction	2/17/2016	1/3/2017	5	230	
5	Paving	Paving	1/4/2017	1/27/2017	5	18	
6	Architectural Coating	Architectural Coating	1/28/2017	2/22/2017	5	18	

**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: 285,099; Non-Residential Outdoor: 95,033 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	80.00	31.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	0.0429	0.4566	0.3503	4.0000e-004		0.0229	0.0229		0.0214	0.0214	0.0000	37.0974	37.0974	0.0101	0.0000	37.3092
<b>Total</b>	<b>0.0429</b>	<b>0.4566</b>	<b>0.3503</b>	<b>4.0000e-004</b>		<b>0.0229</b>	<b>0.0229</b>		<b>0.0214</b>	<b>0.0214</b>	<b>0.0000</b>	<b>37.0974</b>	<b>37.0974</b>	<b>0.0101</b>	<b>0.0000</b>	<b>37.3092</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	0.0000	0.0000	0.0000	0.0000	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	5.4000e-004	7.4000e-004	7.4400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.3561	1.3561	7.0000e-005	0.0000	1.3576
<b>Total</b>	<b>5.4000e-004</b>	<b>7.4000e-004</b>	<b>7.4400e-003</b>	<b>2.0000e-005</b>	<b>1.3600e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.3561</b>	<b>1.3561</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.3576</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	0.0429	0.4566	0.3503	4.0000e-004		0.0229	0.0229		0.0214	0.0214	0.0000	37.0973	37.0973	0.0101	0.0000	37.3092
<b>Total</b>	<b>0.0429</b>	<b>0.4566</b>	<b>0.3503</b>	<b>4.0000e-004</b>		<b>0.0229</b>	<b>0.0229</b>		<b>0.0214</b>	<b>0.0214</b>	<b>0.0000</b>	<b>37.0973</b>	<b>37.0973</b>	<b>0.0101</b>	<b>0.0000</b>	<b>37.3092</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	0.0000	0.0000	0.0000	0.0000	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	5.4000e-004	7.4000e-004	7.4400e-003	2.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.3561	1.3561	7.0000e-005	0.0000	1.3576
<b>Total</b>	<b>5.4000e-004</b>	<b>7.4000e-004</b>	<b>7.4400e-003</b>	<b>2.0000e-005</b>	<b>1.3600e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.3561</b>	<b>1.3561</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.3576</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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1366	0.1028	1.0000e-004		7.3500e-003	7.3500e-003		6.7600e-003	6.7600e-003	0.0000	9.2193	9.2193	2.7800e-003	0.0000	9.2777
<b>Total</b>	<b>0.0127</b>	<b>0.1366</b>	<b>0.1028</b>	<b>1.0000e-004</b>	<b>0.0452</b>	<b>7.3500e-003</b>	<b>0.0525</b>	<b>0.0248</b>	<b>6.7600e-003</b>	<b>0.0316</b>	<b>0.0000</b>	<b>9.2193</b>	<b>9.2193</b>	<b>2.7800e-003</b>	<b>0.0000</b>	<b>9.2777</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	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1366	0.1028	1.0000e-004		7.3500e-003	7.3500e-003		6.7600e-003	6.7600e-003	0.0000	9.2193	9.2193	2.7800e-003	0.0000	9.2777
<b>Total</b>	<b>0.0127</b>	<b>0.1366</b>	<b>0.1028</b>	<b>1.0000e-004</b>	<b>0.0452</b>	<b>7.3500e-003</b>	<b>0.0525</b>	<b>0.0248</b>	<b>6.7600e-003</b>	<b>0.0316</b>	<b>0.0000</b>	<b>9.2193</b>	<b>9.2193</b>	<b>2.7800e-003</b>	<b>0.0000</b>	<b>9.2777</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	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1538	0.1043	1.2000e-004		8.7900e-003	8.7900e-003		8.0900e-003	8.0900e-003	0.0000	11.2266	11.2266	3.3900e-003	0.0000	11.2977
<b>Total</b>	<b>0.0147</b>	<b>0.1538</b>	<b>0.1043</b>	<b>1.2000e-004</b>	<b>0.0262</b>	<b>8.7900e-003</b>	<b>0.0350</b>	<b>0.0135</b>	<b>8.0900e-003</b>	<b>0.0216</b>	<b>0.0000</b>	<b>11.2266</b>	<b>11.2266</b>	<b>3.3900e-003</b>	<b>0.0000</b>	<b>11.2977</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	0.0000	0.0000	0.0000	0.0000	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	2.2000e-004	3.0000e-004	2.9800e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.5424	0.5424	3.0000e-005	0.0000	0.5430
<b>Total</b>	<b>2.2000e-004</b>	<b>3.0000e-004</b>	<b>2.9800e-003</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.5424</b>	<b>0.5424</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5430</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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1538	0.1043	1.2000e-004		8.7900e-003	8.7900e-003		8.0900e-003	8.0900e-003	0.0000	11.2265	11.2265	3.3900e-003	0.0000	11.2977
<b>Total</b>	<b>0.0147</b>	<b>0.1538</b>	<b>0.1043</b>	<b>1.2000e-004</b>	<b>0.0262</b>	<b>8.7900e-003</b>	<b>0.0350</b>	<b>0.0135</b>	<b>8.0900e-003</b>	<b>0.0216</b>	<b>0.0000</b>	<b>11.2265</b>	<b>11.2265</b>	<b>3.3900e-003</b>	<b>0.0000</b>	<b>11.2977</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	0.0000	0.0000	0.0000	0.0000	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	2.2000e-004	3.0000e-004	2.9800e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.5424	0.5424	3.0000e-005	0.0000	0.5430
<b>Total</b>	<b>2.2000e-004</b>	<b>3.0000e-004</b>	<b>2.9800e-003</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.5424</b>	<b>0.5424</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5430</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	0.3883	3.2497	2.1098	3.0600e-003		0.2243	0.2243		0.2107	0.2107	0.0000	276.0551	276.0551	0.0685	0.0000	277.4929
<b>Total</b>	<b>0.3883</b>	<b>3.2497</b>	<b>2.1098</b>	<b>3.0600e-003</b>		<b>0.2243</b>	<b>0.2243</b>		<b>0.2107</b>	<b>0.2107</b>	<b>0.0000</b>	<b>276.0551</b>	<b>276.0551</b>	<b>0.0685</b>	<b>0.0000</b>	<b>277.4929</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	0.0507	0.3488	0.6500	8.1000e-004	0.0226	5.0300e-003	0.0276	6.4700e-003	4.6200e-003	0.0111	0.0000	73.4300	73.4300	5.8000e-004	0.0000	73.4422	
Worker	0.0329	0.0451	0.4523	1.0800e-003	0.0827	7.6000e-004	0.0835	0.0220	7.0000e-004	0.0227	0.0000	82.4509	82.4509	4.3700e-003	0.0000	82.5427	
<b>Total</b>	<b>0.0836</b>	<b>0.3939</b>	<b>1.1023</b>	<b>1.8900e-003</b>	<b>0.1053</b>	<b>5.7900e-003</b>	<b>0.1111</b>	<b>0.0285</b>	<b>5.3200e-003</b>	<b>0.0338</b>	<b>0.0000</b>	<b>155.8809</b>	<b>155.8809</b>	<b>4.9500e-003</b>	<b>0.0000</b>	<b>155.9849</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	0.3883	3.2497	2.1098	3.0600e-003		0.2243	0.2243		0.2107	0.2107	0.0000	276.0548	276.0548	0.0685	0.0000	277.4926
<b>Total</b>	<b>0.3883</b>	<b>3.2497</b>	<b>2.1098</b>	<b>3.0600e-003</b>		<b>0.2243</b>	<b>0.2243</b>		<b>0.2107</b>	<b>0.2107</b>	<b>0.0000</b>	<b>276.0548</b>	<b>276.0548</b>	<b>0.0685</b>	<b>0.0000</b>	<b>277.4926</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	0.0507	0.3488	0.6500	8.1000e-004	0.0226	5.0300e-003	0.0276	6.4700e-003	4.6200e-003	0.0111	0.0000	73.4300	73.4300	5.8000e-004	0.0000	73.4422
Worker	0.0329	0.0451	0.4523	1.0800e-003	0.0827	7.6000e-004	0.0835	0.0220	7.0000e-004	0.0227	0.0000	82.4509	82.4509	4.3700e-003	0.0000	82.5427
<b>Total</b>	<b>0.0836</b>	<b>0.3939</b>	<b>1.1023</b>	<b>1.8900e-003</b>	<b>0.1053</b>	<b>5.7900e-003</b>	<b>0.1111</b>	<b>0.0285</b>	<b>5.3200e-003</b>	<b>0.0338</b>	<b>0.0000</b>	<b>155.8809</b>	<b>155.8809</b>	<b>4.9500e-003</b>	<b>0.0000</b>	<b>155.9849</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.1000e-003	0.0264	0.0181	3.0000e-005		1.7800e-003	1.7800e-003		1.6700e-003	1.6700e-003	0.0000	2.3948	2.3948	5.9000e-004	0.0000	2.4072
<b>Total</b>	<b>3.1000e-003</b>	<b>0.0264</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>1.7800e-003</b>	<b>1.7800e-003</b>		<b>1.6700e-003</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>2.3948</b>	<b>2.3948</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>2.4072</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	4.1000e-004	2.7600e-003	5.3800e-003	1.0000e-005	2.0000e-004	4.0000e-005	2.4000e-004	6.0000e-005	4.0000e-005	9.0000e-005	0.0000	0.6344	0.6344	0.0000	0.0000	0.6345	
Worker	2.6000e-004	3.6000e-004	3.5900e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6956	0.6956	4.0000e-005	0.0000	0.6963	
<b>Total</b>	<b>6.7000e-004</b>	<b>3.1200e-003</b>	<b>8.9700e-003</b>	<b>2.0000e-005</b>	<b>9.3000e-004</b>	<b>5.0000e-005</b>	<b>9.7000e-004</b>	<b>2.5000e-004</b>	<b>5.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.3300</b>	<b>1.3300</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.3309</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	3.1000e-003	0.0264	0.0181	3.0000e-005		1.7800e-003	1.7800e-003		1.6700e-003	1.6700e-003	0.0000	2.3948	2.3948	5.9000e-004	0.0000	2.4072
<b>Total</b>	<b>3.1000e-003</b>	<b>0.0264</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>1.7800e-003</b>	<b>1.7800e-003</b>		<b>1.6700e-003</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>2.3948</b>	<b>2.3948</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>2.4072</b>

### 3.5 Building Construction - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.1000e-004	2.7600e-003	5.3800e-003	1.0000e-005	2.0000e-004	4.0000e-005	2.4000e-004	6.0000e-005	4.0000e-005	9.0000e-005	0.0000	0.6344	0.6344	0.0000	0.0000	0.6345
Worker	2.6000e-004	3.6000e-004	3.5900e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6956	0.6956	4.0000e-005	0.0000	0.6963
<b>Total</b>	<b>6.7000e-004</b>	<b>3.1200e-003</b>	<b>8.9700e-003</b>	<b>2.0000e-005</b>	<b>9.3000e-004</b>	<b>5.0000e-005</b>	<b>9.7000e-004</b>	<b>2.5000e-004</b>	<b>5.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.3300</b>	<b>1.3300</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.3309</b>

### 3.6 Paving - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0149	0.1512	0.1124	1.7000e-004		9.0500e-003	9.0500e-003		8.3400e-003	8.3400e-003	0.0000	15.2992	15.2992	4.5600e-003	0.0000	15.3950
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0149</b>	<b>0.1512</b>	<b>0.1124</b>	<b>1.7000e-004</b>		<b>9.0500e-003</b>	<b>9.0500e-003</b>		<b>8.3400e-003</b>	<b>8.3400e-003</b>	<b>0.0000</b>	<b>15.2992</b>	<b>15.2992</b>	<b>4.5600e-003</b>	<b>0.0000</b>	<b>15.3950</b>

### 3.6 Paving - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	5.9000e-004	8.1000e-004	8.0700e-003	2.0000e-005	1.6300e-003	1.0000e-005	1.6500e-003	4.3000e-004	1.0000e-005	4.5000e-004	0.0000	1.5651	1.5651	8.0000e-005	0.0000	1.5668
<b>Total</b>	<b>5.9000e-004</b>	<b>8.1000e-004</b>	<b>8.0700e-003</b>	<b>2.0000e-005</b>	<b>1.6300e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.3000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.5651</b>	<b>1.5651</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.5668</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	0.0149	0.1512	0.1124	1.7000e-004		9.0500e-003	9.0500e-003		8.3400e-003	8.3400e-003	0.0000	15.2991	15.2991	4.5600e-003	0.0000	15.3950
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0149</b>	<b>0.1512</b>	<b>0.1124</b>	<b>1.7000e-004</b>		<b>9.0500e-003</b>	<b>9.0500e-003</b>		<b>8.3400e-003</b>	<b>8.3400e-003</b>	<b>0.0000</b>	<b>15.2991</b>	<b>15.2991</b>	<b>4.5600e-003</b>	<b>0.0000</b>	<b>15.3950</b>

### 3.6 Paving - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	5.9000e-004	8.1000e-004	8.0700e-003	2.0000e-005	1.6300e-003	1.0000e-005	1.6500e-003	4.3000e-004	1.0000e-005	4.5000e-004	0.0000	1.5651	1.5651	8.0000e-005	0.0000	1.5668
<b>Total</b>	<b>5.9000e-004</b>	<b>8.1000e-004</b>	<b>8.0700e-003</b>	<b>2.0000e-005</b>	<b>1.6300e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.3000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.5651</b>	<b>1.5651</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.5668</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2024					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030
<b>Total</b>	<b>2.2054</b>	<b>0.0197</b>	<b>0.0168</b>	<b>3.0000e-005</b>		<b>1.5600e-003</b>	<b>1.5600e-003</b>		<b>1.5600e-003</b>	<b>1.5600e-003</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.3030</b>



### 3.7 Architectural Coating - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4600e-003	2.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2521	1.2521	6.0000e-005	0.0000	1.2534	
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4600e-003</b>	<b>2.0000e-005</b>	<b>1.3100e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.2521</b>	<b>1.2521</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.2534</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	2.2024					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0197	0.0168	3.0000e-005		1.5600e-003	1.5600e-003		1.5600e-003	1.5600e-003	0.0000	2.2979	2.2979	2.4000e-004	0.0000	2.3030
<b>Total</b>	<b>2.2054</b>	<b>0.0197</b>	<b>0.0168</b>	<b>3.0000e-005</b>		<b>1.5600e-003</b>	<b>1.5600e-003</b>		<b>1.5600e-003</b>	<b>1.5600e-003</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.3030</b>

### 3.7 Architectural Coating - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4600e-003	2.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2521	1.2521	6.0000e-005	0.0000	1.2534
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4600e-003</b>	<b>2.0000e-005</b>	<b>1.3100e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.2521</b>	<b>1.2521</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.2534</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	5.2765	6.7896	61.8094	0.4571	0.7083	0.0794	0.7877	0.2057	0.0794	0.2851	0.0000	1,106.6736	1,106.6736	0.3547	0.0000	1,114.1222
Unmitigated	5.2765	6.7896	61.8094	0.4571	0.7083	0.0794	0.7877	0.2057	0.0794	0.2851	0.0000	1,106.6736	1,106.6736	0.3547	0.0000	1,114.1222

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	830.04	830.04	830.04	2,107,906	2,107,906
Total	830.04	830.04	830.04	2,107,906	2,107,906

**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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.651917	0.131409	0.116609	0.024723	0.005366	0.011979	0.034294	0.003886	0.001827	0.008385	0.008054	0.000815	0.000736

**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	570.0644	570.0644	0.0258	5.3300e-003	572.2590
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	570.0644	570.0644	0.0258	5.3300e-003	572.2590
NaturalGas Mitigated	0.0278	0.2530	0.2125	1.5200e-003		0.0192	0.0192		0.0192	0.0192	0.0000	275.3728	275.3728	5.2800e-003	5.0500e-003	277.0487
NaturalGas Unmitigated	0.0278	0.2530	0.2125	1.5200e-003		0.0192	0.0192		0.0192	0.0192	0.0000	275.3728	275.3728	5.2800e-003	5.0500e-003	277.0487

**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					
Junior College (2Yr)	5.16029e+006	0.0278	0.2530	0.2125	1.5200e-003		0.0192	0.0192		0.0192	0.0192	0.0000	275.3728	275.3728	5.2800e-003	5.0500e-003	277.0487
<b>Total</b>		<b>0.0278</b>	<b>0.2530</b>	<b>0.2125</b>	<b>1.5200e-003</b>		<b>0.0192</b>	<b>0.0192</b>		<b>0.0192</b>	<b>0.0192</b>	<b>0.0000</b>	<b>275.3728</b>	<b>275.3728</b>	<b>5.2800e-003</b>	<b>5.0500e-003</b>	<b>277.0487</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					
Junior College (2Yr)	5.16029e+006	0.0278	0.2530	0.2125	1.5200e-003		0.0192	0.0192		0.0192	0.0192	0.0000	275.3728	275.3728	5.2800e-003	5.0500e-003	277.0487
<b>Total</b>		<b>0.0278</b>	<b>0.2530</b>	<b>0.2125</b>	<b>1.5200e-003</b>		<b>0.0192</b>	<b>0.0192</b>		<b>0.0192</b>	<b>0.0192</b>	<b>0.0000</b>	<b>275.3728</b>	<b>275.3728</b>	<b>5.2800e-003</b>	<b>5.0500e-003</b>	<b>277.0487</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	1.95958e+006	570.0644	0.0258	5.3300e-003	572.2590
<b>Total</b>		<b>570.0644</b>	<b>0.0258</b>	<b>5.3300e-003</b>	<b>572.2590</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	1.95958e+006	570.0644	0.0258	5.3300e-003	572.2590
<b>Total</b>		<b>570.0644</b>	<b>0.0258</b>	<b>5.3300e-003</b>	<b>572.2590</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	0.9633	2.0000e-005	5.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4000e-003	3.4000e-003	6.0000e-005	0.0000	4.7400e-003
Unmitigated	0.9633	2.0000e-005	5.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4000e-003	3.4000e-003	6.0000e-005	0.0000	4.7400e-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	0.2202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7423					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	2.0000e-005	5.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4000e-003	3.4000e-003	6.0000e-005	0.0000	4.7400e-003
<b>Total</b>	<b>0.9633</b>	<b>2.0000e-005</b>	<b>5.7000e-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>0.0000</b>	<b>3.4000e-003</b>	<b>3.4000e-003</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>4.7400e-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	0.2202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7423					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	2.0000e-005	5.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.4000e-003	3.4000e-003	6.0000e-005	0.0000	4.7400e-003
<b>Total</b>	<b>0.9633</b>	<b>2.0000e-005</b>	<b>5.7000e-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>0.0000</b>	<b>3.4000e-003</b>	<b>3.4000e-003</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>4.7400e-003</b>

### 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	32.4798	0.3051	7.4400e-003	41.1918
Unmitigated	32.4798	0.3051	7.4500e-003	41.1965

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	9.32275 / 14.5817	32.4798	0.3051	7.4500e-003	41.1965
<b>Total</b>		<b>32.4798</b>	<b>0.3051</b>	<b>7.4500e-003</b>	<b>41.1965</b>



## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	9.32275 / 14.5817	32.4798	0.3051	7.4400e-003	41.1918
<b>Total</b>		<b>32.4798</b>	<b>0.3051</b>	<b>7.4400e-003</b>	<b>41.1918</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	50.1570	2.9642	0.0000	112.4052
Unmitigated	50.1570	2.9642	0.0000	112.4052

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	247.09	50.1570	2.9642	0.0000	112.4052
<b>Total</b>		<b>50.1570</b>	<b>2.9642</b>	<b>0.0000</b>	<b>112.4052</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	247.09	50.1570	2.9642	0.0000	112.4052
<b>Total</b>		<b>50.1570</b>	<b>2.9642</b>	<b>0.0000</b>	<b>112.4052</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 30**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	99.55	1000sqft	2.29	99,552.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.433 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2005
tblVehicleTrips	ST_TR	11.23	7.43
tblVehicleTrips	SU_TR	1.21	7.43
tblVehicleTrips	WD_TR	27.49	7.43

## 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	0.5043	1.0000e-005	1.1600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7800e-003	1.7800e-003	1.0000e-005	0.0000	1.9500e-003
Energy	0.0146	0.1325	0.1113	7.9000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	442.8197	442.8197	0.0163	5.4400e-003	444.8470
Mobile	1.2382	2.4805	13.4767	0.0219	0.6314	0.0526	0.6840	0.1833	0.0526	0.2359	0.0000	989.6204	989.6204	0.0962	0.0000	991.6399
Waste						0.0000	0.0000		0.0000	0.0000	26.2691	0.0000	26.2691	1.5525	0.0000	58.8707
Water						0.0000	0.0000		0.0000	0.0000	1.5491	15.4623	17.0114	0.1598	3.9000e-003	21.5768
<b>Total</b>	<b>1.7571</b>	<b>2.6130</b>	<b>13.5891</b>	<b>0.0227</b>	<b>0.6314</b>	<b>0.0627</b>	<b>0.6941</b>	<b>0.1833</b>	<b>0.0627</b>	<b>0.2460</b>	<b>27.8182</b>	<b>1,447.9042</b>	<b>1,475.7224</b>	<b>1.8247</b>	<b>9.3400e-003</b>	<b>1,516.9363</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	0.5043	1.0000e-005	1.1600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7800e-003	1.7800e-003	1.0000e-005	0.0000	1.9500e-003
Energy	0.0146	0.1325	0.1113	7.9000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	442.8197	442.8197	0.0163	5.4400e-003	444.8470
Mobile	1.2382	2.4805	13.4767	0.0219	0.6314	0.0526	0.6840	0.1833	0.0526	0.2359	0.0000	989.6204	989.6204	0.0962	0.0000	991.6399
Waste						0.0000	0.0000		0.0000	0.0000	26.2691	0.0000	26.2691	1.5525	0.0000	58.8707
Water						0.0000	0.0000		0.0000	0.0000	1.5491	15.4623	17.0114	0.1598	3.9000e-003	21.5744
<b>Total</b>	<b>1.7571</b>	<b>2.6130</b>	<b>13.5891</b>	<b>0.0227</b>	<b>0.6314</b>	<b>0.0627</b>	<b>0.6941</b>	<b>0.1833</b>	<b>0.0627</b>	<b>0.2460</b>	<b>27.8182</b>	<b>1,447.9042</b>	<b>1,475.7224</b>	<b>1.8247</b>	<b>9.3400e-003</b>	<b>1,516.9339</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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/2/2016	5	3	
3	Grading	Grading	2/3/2016	2/10/2016	5	6	
4	Building Construction	Building Construction	2/11/2016	12/14/2016	5	220	
5	Paving	Paving	12/15/2016	12/28/2016	5	10	
6	Architectural Coating	Architectural Coating	12/29/2016	1/11/2017	5	10	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 149,328; Non-Residential Outdoor: 49,776 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	42.00	16.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5629</b>	<b>22.5629</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6827</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5628</b>	<b>22.5628</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6826</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0500e-003	0.0462	0.0271	4.0000e-005		2.2700e-003	2.2700e-003		2.0900e-003	2.0900e-003	0.0000	3.3749	3.3749	1.0200e-003	0.0000	3.3962
<b>Total</b>	<b>4.0500e-003</b>	<b>0.0462</b>	<b>0.0271</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>2.2700e-003</b>	<b>4.6600e-003</b>	<b>2.6000e-004</b>	<b>2.0900e-003</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>3.3749</b>	<b>3.3749</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>3.3962</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	4.0000e-005	6.0000e-005	6.0000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1085	0.1085	1.0000e-005	0.0000	0.1086
<b>Total</b>	<b>4.0000e-005</b>	<b>6.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1085</b>	<b>0.1085</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1086</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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0500e-003	0.0462	0.0271	4.0000e-005		2.2700e-003	2.2700e-003		2.0900e-003	2.0900e-003	0.0000	3.3749	3.3749	1.0200e-003	0.0000	3.3962
<b>Total</b>	<b>4.0500e-003</b>	<b>0.0462</b>	<b>0.0271</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>2.2700e-003</b>	<b>4.6600e-003</b>	<b>2.6000e-004</b>	<b>2.0900e-003</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>3.3749</b>	<b>3.3749</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>3.3962</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	4.0000e-005	6.0000e-005	6.0000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1085	0.1085	1.0000e-005	0.0000	0.1086
<b>Total</b>	<b>4.0000e-005</b>	<b>6.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1085</b>	<b>0.1085</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1086</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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5600e-003	0.0898	0.0589	6.0000e-005		5.0000e-003	5.0000e-003		4.6000e-003	4.6000e-003	0.0000	5.8222	5.8222	1.7600e-003	0.0000	5.8590
<b>Total</b>	<b>8.5600e-003</b>	<b>0.0898</b>	<b>0.0589</b>	<b>6.0000e-005</b>	<b>0.0197</b>	<b>5.0000e-003</b>	<b>0.0247</b>	<b>0.0101</b>	<b>4.6000e-003</b>	<b>0.0147</b>	<b>0.0000</b>	<b>5.8222</b>	<b>5.8222</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.8590</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	0.0000	0.0000	0.0000	0.0000	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	1.4900e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2712	0.2712	1.0000e-005	0.0000	0.2715
<b>Total</b>	<b>1.1000e-004</b>	<b>1.5000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2712</b>	<b>0.2712</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2715</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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5600e-003	0.0898	0.0589	6.0000e-005		5.0000e-003	5.0000e-003		4.6000e-003	4.6000e-003	0.0000	5.8221	5.8221	1.7600e-003	0.0000	5.8590
<b>Total</b>	<b>8.5600e-003</b>	<b>0.0898</b>	<b>0.0589</b>	<b>6.0000e-005</b>	<b>0.0197</b>	<b>5.0000e-003</b>	<b>0.0247</b>	<b>0.0101</b>	<b>4.6000e-003</b>	<b>0.0147</b>	<b>0.0000</b>	<b>5.8221</b>	<b>5.8221</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.8590</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	0.0000	0.0000	0.0000	0.0000	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	1.4900e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2712	0.2712	1.0000e-005	0.0000	0.2715
<b>Total</b>	<b>1.1000e-004</b>	<b>1.5000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2712</b>	<b>0.2712</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2715</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	0.4068	2.7095	1.8388	2.7400e-003		0.1788	0.1788		0.1713	0.1713	0.0000	234.7292	234.7292	0.0541	0.0000	235.8650
<b>Total</b>	<b>0.4068</b>	<b>2.7095</b>	<b>1.8388</b>	<b>2.7400e-003</b>		<b>0.1788</b>	<b>0.1788</b>		<b>0.1713</b>	<b>0.1713</b>	<b>0.0000</b>	<b>234.7292</b>	<b>234.7292</b>	<b>0.0541</b>	<b>0.0000</b>	<b>235.8650</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
Vendor	0.0253	0.1737	0.3237	4.0000e-004	0.0113	2.5000e-003	0.0138	3.2200e-003	2.3000e-003	5.5200e-003	0.0000	36.5695	36.5695	2.9000e-004	0.0000	36.5756
Worker	0.0167	0.0228	0.2291	5.5000e-004	0.0419	3.8000e-004	0.0423	0.0112	3.5000e-004	0.0115	0.0000	41.7679	41.7679	2.2100e-003	0.0000	41.8144
<b>Total</b>	<b>0.0419</b>	<b>0.1965</b>	<b>0.5528</b>	<b>9.5000e-004</b>	<b>0.0532</b>	<b>2.8800e-003</b>	<b>0.0560</b>	<b>0.0144</b>	<b>2.6500e-003</b>	<b>0.0170</b>	<b>0.0000</b>	<b>78.3375</b>	<b>78.3375</b>	<b>2.5000e-003</b>	<b>0.0000</b>	<b>78.3900</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	0.4068	2.7095	1.8388	2.7400e-003		0.1788	0.1788		0.1713	0.1713	0.0000	234.7289	234.7289	0.0541	0.0000	235.8647
<b>Total</b>	<b>0.4068</b>	<b>2.7095</b>	<b>1.8388</b>	<b>2.7400e-003</b>		<b>0.1788</b>	<b>0.1788</b>		<b>0.1713</b>	<b>0.1713</b>	<b>0.0000</b>	<b>234.7289</b>	<b>234.7289</b>	<b>0.0541</b>	<b>0.0000</b>	<b>235.8647</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	0.0253	0.1737	0.3237	4.0000e-004	0.0113	2.5000e-003	0.0138	3.2200e-003	2.3000e-003	5.5200e-003	0.0000	36.5695	36.5695	2.9000e-004	0.0000	36.5756
Worker	0.0167	0.0228	0.2291	5.5000e-004	0.0419	3.8000e-004	0.0423	0.0112	3.5000e-004	0.0115	0.0000	41.7679	41.7679	2.2100e-003	0.0000	41.8144
<b>Total</b>	<b>0.0419</b>	<b>0.1965</b>	<b>0.5528</b>	<b>9.5000e-004</b>	<b>0.0532</b>	<b>2.8800e-003</b>	<b>0.0560</b>	<b>0.0144</b>	<b>2.6500e-003</b>	<b>0.0170</b>	<b>0.0000</b>	<b>78.3375</b>	<b>78.3375</b>	<b>2.5000e-003</b>	<b>0.0000</b>	<b>78.3900</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	8.9100e-003	0.0897	0.0607	9.0000e-005		5.6300e-003	5.6300e-003		5.1800e-003	5.1800e-003	0.0000	8.1867	8.1867	2.4200e-003	0.0000	8.2376
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.9100e-003</b>	<b>0.0897</b>	<b>0.0607</b>	<b>9.0000e-005</b>		<b>5.6300e-003</b>	<b>5.6300e-003</b>		<b>5.1800e-003</b>	<b>5.1800e-003</b>	<b>0.0000</b>	<b>8.1867</b>	<b>8.1867</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>8.2376</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	2.7000e-004	3.7000e-004	3.7200e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6781	0.6781	4.0000e-005	0.0000	0.6788
<b>Total</b>	<b>2.7000e-004</b>	<b>3.7000e-004</b>	<b>3.7200e-003</b>	<b>1.0000e-005</b>	<b>6.8000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>1.8000e-004</b>	<b>1.0000e-005</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.6781</b>	<b>0.6781</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6788</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	8.9100e-003	0.0897	0.0607	9.0000e-005		5.6300e-003	5.6300e-003		5.1800e-003	5.1800e-003	0.0000	8.1867	8.1867	2.4200e-003	0.0000	8.2376
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.9100e-003</b>	<b>0.0897</b>	<b>0.0607</b>	<b>9.0000e-005</b>		<b>5.6300e-003</b>	<b>5.6300e-003</b>		<b>5.1800e-003</b>	<b>5.1800e-003</b>	<b>0.0000</b>	<b>8.1867</b>	<b>8.1867</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>8.2376</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	2.7000e-004	3.7000e-004	3.7200e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6781	0.6781	4.0000e-005	0.0000	0.6788
<b>Total</b>	<b>2.7000e-004</b>	<b>3.7000e-004</b>	<b>3.7200e-003</b>	<b>1.0000e-005</b>	<b>6.8000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>1.8000e-004</b>	<b>1.0000e-005</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.6781</b>	<b>0.6781</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6788</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	0.2307					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7000e-004	2.3700e-003	1.8800e-003	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.2553	0.2553	3.0000e-005	0.0000	0.2560
<b>Total</b>	<b>0.2311</b>	<b>2.3700e-003</b>	<b>1.8800e-003</b>	<b>0.0000</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.2553</b>	<b>0.2553</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.2560</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	4.0000e-005	4.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0723	0.0723	0.0000	0.0000	0.0724	0.0724
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0723</b>	<b>0.0723</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0724</b>	<b>0.0724</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	0.2307					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7000e-004	2.3700e-003	1.8800e-003	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.2553	0.2553	3.0000e-005	0.0000	0.2560
<b>Total</b>	<b>0.2311</b>	<b>2.3700e-003</b>	<b>1.8800e-003</b>	<b>0.0000</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.2553</b>	<b>0.2553</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.2560</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	4.0000e-005	4.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0723	0.0723	0.0000	0.0000	0.0724
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0723</b>	<b>0.0723</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0724</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	8.7400e-003	7.4700e-003	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	1.0213	1.0213	1.1000e-004	0.0000	1.0236
<b>Total</b>	<b>0.9242</b>	<b>8.7400e-003</b>	<b>7.4700e-003</b>	<b>1.0000e-005</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>1.0213</b>	<b>1.0213</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.0236</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-004	1.4000e-004	1.4300e-003	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2782	0.2782	1.0000e-005	0.0000	0.2785
<b>Total</b>	<b>1.0000e-004</b>	<b>1.4000e-004</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2782</b>	<b>0.2782</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2785</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	0.9229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	8.7400e-003	7.4700e-003	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	1.0213	1.0213	1.1000e-004	0.0000	1.0236
<b>Total</b>	<b>0.9242</b>	<b>8.7400e-003</b>	<b>7.4700e-003</b>	<b>1.0000e-005</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>1.0213</b>	<b>1.0213</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.0236</b>



### 3.7 Architectural Coating - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-004	1.4000e-004	1.4300e-003	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2782	0.2782	1.0000e-005	0.0000	0.2785
<b>Total</b>	<b>1.0000e-004</b>	<b>1.4000e-004</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2782</b>	<b>0.2782</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2785</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	1.2382	2.4805	13.4767	0.0219	0.6314	0.0526	0.6840	0.1833	0.0526	0.2359	0.0000	989.6204	989.6204	0.0962	0.0000	991.6399
Unmitigated	1.2382	2.4805	13.4767	0.0219	0.6314	0.0526	0.6840	0.1833	0.0526	0.2359	0.0000	989.6204	989.6204	0.0962	0.0000	991.6399

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	739.97	739.97	739.97	1,879,181	1,879,181
Total	739.97	739.97	739.97	1,879,181	1,879,181

**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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

**5.0 Energy Detail**

**4.4 Fleet Mix**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	298.5860	298.5860	0.0135	2.7900e-003	299.7355
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	298.5860	298.5860	0.0135	2.7900e-003	299.7355
NaturalGas Mitigated	0.0146	0.1325	0.1113	7.9000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.2337	144.2337	2.7600e-003	2.6400e-003	145.1115
NaturalGas Unmitigated	0.0146	0.1325	0.1113	7.9000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.2337	144.2337	2.7600e-003	2.6400e-003	145.1115

**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					
Junior College (2Yr)	2.70284e+006	0.0146	0.1325	0.1113	7.9000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.2337	144.2337	2.7600e-003	2.6400e-003	145.1115
<b>Total</b>		<b>0.0146</b>	<b>0.1325</b>	<b>0.1113</b>	<b>7.9000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>0.0101</b>	<b>0.0101</b>	<b>0.0000</b>	<b>144.2337</b>	<b>144.2337</b>	<b>2.7600e-003</b>	<b>2.6400e-003</b>	<b>145.1115</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					
Junior College (2Yr)	2.70284e+006	0.0146	0.1325	0.1113	7.9000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.2337	144.2337	2.7600e-003	2.6400e-003	145.1115
<b>Total</b>		<b>0.0146</b>	<b>0.1325</b>	<b>0.1113</b>	<b>7.9000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>0.0101</b>	<b>0.0101</b>	<b>0.0000</b>	<b>144.2337</b>	<b>144.2337</b>	<b>2.7600e-003</b>	<b>2.6400e-003</b>	<b>145.1115</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	1.02638e+006	298.5860	0.0135	2.7900e-003	299.7355
<b>Total</b>		<b>298.5860</b>	<b>0.0135</b>	<b>2.7900e-003</b>	<b>299.7355</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	1.02638e+006	298.5860	0.0135	2.7900e-003	299.7355
<b>Total</b>		<b>298.5860</b>	<b>0.0135</b>	<b>2.7900e-003</b>	<b>299.7355</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	0.5043	1.0000e-005	1.1600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7800e-003	1.7800e-003	1.0000e-005	0.0000	1.9500e-003
Unmitigated	0.5043	1.0000e-005	1.1600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7800e-003	1.7800e-003	1.0000e-005	0.0000	1.9500e-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	0.1154					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3888					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5000e-004	1.0000e-005	1.1600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7800e-003	1.7800e-003	1.0000e-005	0.0000	1.9500e-003
<b>Total</b>	<b>0.5043</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7800e-003</b>	<b>1.7800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.9500e-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	0.1154					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3888					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5000e-004	1.0000e-005	1.1600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7800e-003	1.7800e-003	1.0000e-005	0.0000	1.9500e-003
<b>Total</b>	<b>0.5043</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7800e-003</b>	<b>1.7800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.9500e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	17.0114	0.1598	3.9000e-003	21.5744
Unmitigated	17.0114	0.1598	3.9000e-003	21.5768

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	4.88283 / 7.63725	17.0114	0.1598	3.9000e-003	21.5768
<b>Total</b>		<b>17.0114</b>	<b>0.1598</b>	<b>3.9000e-003</b>	<b>21.5768</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	4.88283 / 7.63725	17.0114	0.1598	3.9000e-003	21.5744
<b>Total</b>		<b>17.0114</b>	<b>0.1598</b>	<b>3.9000e-003</b>	<b>21.5744</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	26.2691	1.5525	0.0000	58.8707
Unmitigated	26.2691	1.5525	0.0000	58.8707



## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	129.41	26.2691	1.5525	0.0000	58.8707
<b>Total</b>		<b>26.2691</b>	<b>1.5525</b>	<b>0.0000</b>	<b>58.8707</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	129.41	26.2691	1.5525	0.0000	58.8707
<b>Total</b>		<b>26.2691</b>	<b>1.5525</b>	<b>0.0000</b>	<b>58.8707</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 31**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	73.67	1000sqft	1.69	73,666.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.33 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2005
tblVehicleTrips	ST_TR	11.23	7.33
tblVehicleTrips	SU_TR	1.21	7.33
tblVehicleTrips	WD_TR	27.49	7.33

## 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	0.3732	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3200e-003	1.3200e-003	1.0000e-005	0.0000	1.4400e-003
Energy	0.0108	0.0980	0.0824	5.9000e-004		7.4500e-003	7.4500e-003		7.4500e-003	7.4500e-003	0.0000	327.6756	327.6756	0.0120	4.0200e-003	329.1757
Mobile	0.9035	1.8100	9.8342	0.0160	0.4608	0.0384	0.4992	0.1337	0.0384	0.1722	0.0000	722.1469	722.1469	0.0702	0.0000	723.6206
Waste						0.0000	0.0000		0.0000	0.0000	19.4404	0.0000	19.4404	1.1489	0.0000	43.5673
Water						0.0000	0.0000		0.0000	0.0000	1.1464	11.4426	12.5890	0.1183	2.8900e-003	15.9675
<b>Total</b>	<b>1.2875</b>	<b>1.9081</b>	<b>9.9174</b>	<b>0.0166</b>	<b>0.4608</b>	<b>0.0459</b>	<b>0.5066</b>	<b>0.1337</b>	<b>0.0459</b>	<b>0.1796</b>	<b>20.5868</b>	<b>1,061.2664</b>	<b>1,081.8532</b>	<b>1.3494</b>	<b>6.9100e-003</b>	<b>1,112.3325</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	0.3732	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3200e-003	1.3200e-003	1.0000e-005	0.0000	1.4400e-003
Energy	0.0108	0.0980	0.0824	5.9000e-004		7.4500e-003	7.4500e-003		7.4500e-003	7.4500e-003	0.0000	327.6756	327.6756	0.0120	4.0200e-003	329.1757
Mobile	0.9035	1.8100	9.8342	0.0160	0.4608	0.0384	0.4992	0.1337	0.0384	0.1722	0.0000	722.1469	722.1469	0.0702	0.0000	723.6206
Waste						0.0000	0.0000		0.0000	0.0000	19.4404	0.0000	19.4404	1.1489	0.0000	43.5673
Water						0.0000	0.0000		0.0000	0.0000	1.1464	11.4426	12.5890	0.1182	2.8800e-003	15.9657
<b>Total</b>	<b>1.2875</b>	<b>1.9081</b>	<b>9.9174</b>	<b>0.0166</b>	<b>0.4608</b>	<b>0.0459</b>	<b>0.5066</b>	<b>0.1337</b>	<b>0.0459</b>	<b>0.1796</b>	<b>20.5868</b>	<b>1,061.2664</b>	<b>1,081.8532</b>	<b>1.3494</b>	<b>6.9000e-003</b>	<b>1,112.3307</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	0.14	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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/1/2016	5	2	
3	Grading	Grading	2/2/2016	2/5/2016	5	4	
4	Building Construction	Building Construction	2/6/2016	11/11/2016	5	200	
5	Paving	Paving	11/12/2016	11/25/2016	5	10	
6	Architectural Coating	Architectural Coating	11/26/2016	12/9/2016	5	10	

**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: 110,499; Non-Residential Outdoor: 36,833 (Architectural Coating – sqft)**

**OffRoad Equipment**



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

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	31.00	12.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5629</b>	<b>22.5629</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6827</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5628</b>	<b>22.5628</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6826</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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	4.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0723	0.0723	0.0000	0.0000	0.0724
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0723</b>	<b>0.0723</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0724</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-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

#### 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	4.0000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0723	0.0723	0.0000	0.0000	0.0724
<b>Total</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0723</b>	<b>0.0723</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0724</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					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710
<b>Total</b>	<b>3.9800e-003</b>	<b>0.0421</b>	<b>0.0273</b>	<b>3.0000e-005</b>	<b>9.8300e-003</b>	<b>2.2800e-003</b>	<b>0.0121</b>	<b>5.0500e-003</b>	<b>2.1000e-003</b>	<b>7.1500e-003</b>	<b>0.0000</b>	<b>2.6541</b>	<b>2.6541</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.6710</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	8.0000e-005	7.9000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1447	0.1447	1.0000e-005	0.0000	0.1448
<b>Total</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1447</b>	<b>0.1447</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1448</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					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9800e-003	0.0421	0.0273	3.0000e-005		2.2800e-003	2.2800e-003		2.1000e-003	2.1000e-003	0.0000	2.6541	2.6541	8.0000e-004	0.0000	2.6710
<b>Total</b>	<b>3.9800e-003</b>	<b>0.0421</b>	<b>0.0273</b>	<b>3.0000e-005</b>	<b>9.8300e-003</b>	<b>2.2800e-003</b>	<b>0.0121</b>	<b>5.0500e-003</b>	<b>2.1000e-003</b>	<b>7.1500e-003</b>	<b>0.0000</b>	<b>2.6541</b>	<b>2.6541</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.6710</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	8.0000e-005	7.9000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1447	0.1447	1.0000e-005	0.0000	0.1448
<b>Total</b>	<b>6.0000e-005</b>	<b>8.0000e-005</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1447</b>	<b>0.1447</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1448</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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6956	185.6956	0.0408	0.0000	186.5527
<b>Total</b>	<b>0.3292</b>	<b>2.0546</b>	<b>1.4707</b>	<b>2.2000e-003</b>		<b>0.1366</b>	<b>0.1366</b>		<b>0.1318</b>	<b>0.1318</b>	<b>0.0000</b>	<b>185.6956</b>	<b>185.6956</b>	<b>0.0408</b>	<b>0.0000</b>	<b>186.5527</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	0.0172	0.1184	0.2207	2.8000e-004	7.6700e-003	1.7100e-003	9.3800e-003	2.2000e-003	1.5700e-003	3.7700e-003	0.0000	24.9338	24.9338	2.0000e-004	0.0000	24.9379	
Worker	0.0112	0.0153	0.1537	3.7000e-004	0.0281	2.6000e-004	0.0284	7.4800e-003	2.4000e-004	7.7200e-003	0.0000	28.0261	28.0261	1.4900e-003	0.0000	28.0573	
<b>Total</b>	<b>0.0284</b>	<b>0.1338</b>	<b>0.3745</b>	<b>6.5000e-004</b>	<b>0.0358</b>	<b>1.9700e-003</b>	<b>0.0378</b>	<b>9.6800e-003</b>	<b>1.8100e-003</b>	<b>0.0115</b>	<b>0.0000</b>	<b>52.9599</b>	<b>52.9599</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>52.9952</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	0.3292	2.0546	1.4707	2.2000e-003		0.1366	0.1366		0.1318	0.1318	0.0000	185.6954	185.6954	0.0408	0.0000	186.5525
<b>Total</b>	<b>0.3292</b>	<b>2.0546</b>	<b>1.4707</b>	<b>2.2000e-003</b>		<b>0.1366</b>	<b>0.1366</b>		<b>0.1318</b>	<b>0.1318</b>	<b>0.0000</b>	<b>185.6954</b>	<b>185.6954</b>	<b>0.0408</b>	<b>0.0000</b>	<b>186.5525</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	0.0172	0.1184	0.2207	2.8000e-004	7.6700e-003	1.7100e-003	9.3800e-003	2.2000e-003	1.5700e-003	3.7700e-003	0.0000	24.9338	24.9338	2.0000e-004	0.0000	24.9379
Worker	0.0112	0.0153	0.1537	3.7000e-004	0.0281	2.6000e-004	0.0284	7.4800e-003	2.4000e-004	7.7200e-003	0.0000	28.0261	28.0261	1.4900e-003	0.0000	28.0573
<b>Total</b>	<b>0.0284</b>	<b>0.1338</b>	<b>0.3745</b>	<b>6.5000e-004</b>	<b>0.0358</b>	<b>1.9700e-003</b>	<b>0.0378</b>	<b>9.6800e-003</b>	<b>1.8100e-003</b>	<b>0.0115</b>	<b>0.0000</b>	<b>52.9599</b>	<b>52.9599</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>52.9952</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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.4400e-003</b>	<b>0.0660</b>	<b>0.0454</b>	<b>7.0000e-005</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>6.2071</b>	<b>6.2071</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>6.2457</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	2.3000e-004	3.2000e-004	3.2200e-003	1.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5876	0.5876	3.0000e-005	0.0000	0.5883
<b>Total</b>	<b>2.3000e-004</b>	<b>3.2000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5876</b>	<b>0.5876</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5883</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	6.4400e-003	0.0660	0.0454	7.0000e-005		4.0400e-003	4.0400e-003		3.7200e-003	3.7200e-003	0.0000	6.2071	6.2071	1.8400e-003	0.0000	6.2457
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.4400e-003</b>	<b>0.0660</b>	<b>0.0454</b>	<b>7.0000e-005</b>		<b>4.0400e-003</b>	<b>4.0400e-003</b>		<b>3.7200e-003</b>	<b>3.7200e-003</b>	<b>0.0000</b>	<b>6.2071</b>	<b>6.2071</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>6.2457</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	2.3000e-004	3.2000e-004	3.2200e-003	1.0000e-005	5.9000e-004	1.0000e-005	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5876	0.5876	3.0000e-005	0.0000	0.5883
<b>Total</b>	<b>2.3000e-004</b>	<b>3.2000e-004</b>	<b>3.2200e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5876</b>	<b>0.5876</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5883</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	0.8536					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
<b>Total</b>	<b>0.8554</b>	<b>0.0119</b>	<b>9.4200e-003</b>	<b>1.0000e-005</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.2798</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
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	1.4900e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2712	0.2712	1.0000e-005	0.0000	0.2715
<b>Total</b>	<b>1.1000e-004</b>	<b>1.5000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2712</b>	<b>0.2712</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2715</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	0.8536					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
<b>Total</b>	<b>0.8554</b>	<b>0.0119</b>	<b>9.4200e-003</b>	<b>1.0000e-005</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>		<b>9.8000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.2798</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	1.1000e-004	1.5000e-004	1.4900e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2712	0.2712	1.0000e-005	0.0000	0.2715
<b>Total</b>	<b>1.1000e-004</b>	<b>1.5000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2712</b>	<b>0.2712</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2715</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	0.9035	1.8100	9.8342	0.0160	0.4608	0.0384	0.4992	0.1337	0.0384	0.1722	0.0000	722.1469	722.1469	0.0702	0.0000	723.6206
Unmitigated	0.9035	1.8100	9.8342	0.0160	0.4608	0.0384	0.4992	0.1337	0.0384	0.1722	0.0000	722.1469	722.1469	0.0702	0.0000	723.6206

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	539.97	539.97	539.97	1,371,278	1,371,278
Total	539.97	539.97	539.97	1,371,278	1,371,278

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 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	220.9462	220.9462	9.9900e-003	2.0700e-003	221.7968
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	220.9462	220.9462	9.9900e-003	2.0700e-003	221.7968
NaturalGas Mitigated	0.0108	0.0980	0.0824	5.9000e-004		7.4500e-003	7.4500e-003		7.4500e-003	7.4500e-003	0.0000	106.7293	106.7293	2.0500e-003	1.9600e-003	107.3789
NaturalGas Unmitigated	0.0108	0.0980	0.0824	5.9000e-004		7.4500e-003	7.4500e-003		7.4500e-003	7.4500e-003	0.0000	106.7293	106.7293	2.0500e-003	1.9600e-003	107.3789

**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					
Junior College (2Yr)	2.00003e+006	0.0108	0.0980	0.0824	5.9000e-004		7.4500e-003	7.4500e-003		7.4500e-003	7.4500e-003	0.0000	106.7293	106.7293	2.0500e-003	1.9600e-003	107.3789
<b>Total</b>		<b>0.0108</b>	<b>0.0980</b>	<b>0.0824</b>	<b>5.9000e-004</b>		<b>7.4500e-003</b>	<b>7.4500e-003</b>		<b>7.4500e-003</b>	<b>7.4500e-003</b>	<b>0.0000</b>	<b>106.7293</b>	<b>106.7293</b>	<b>2.0500e-003</b>	<b>1.9600e-003</b>	<b>107.3789</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					
Junior College (2Yr)	2.00003e+006	0.0108	0.0980	0.0824	5.9000e-004		7.4500e-003	7.4500e-003		7.4500e-003	7.4500e-003	0.0000	106.7293	106.7293	2.0500e-003	1.9600e-003	107.3789
<b>Total</b>		<b>0.0108</b>	<b>0.0980</b>	<b>0.0824</b>	<b>5.9000e-004</b>		<b>7.4500e-003</b>	<b>7.4500e-003</b>		<b>7.4500e-003</b>	<b>7.4500e-003</b>	<b>0.0000</b>	<b>106.7293</b>	<b>106.7293</b>	<b>2.0500e-003</b>	<b>1.9600e-003</b>	<b>107.3789</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	759496	220.9462	9.9900e-003	2.0700e-003	221.7968
<b>Total</b>		<b>220.9462</b>	<b>9.9900e-003</b>	<b>2.0700e-003</b>	<b>221.7968</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	759496	220.9462	9.9900e-003	2.0700e-003	221.7968
<b>Total</b>		<b>220.9462</b>	<b>9.9900e-003</b>	<b>2.0700e-003</b>	<b>221.7968</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	0.3732	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3200e-003	1.3200e-003	1.0000e-005	0.0000	1.4400e-003
Unmitigated	0.3732	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3200e-003	1.3200e-003	1.0000e-005	0.0000	1.4400e-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	0.0854					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3200e-003	1.3200e-003	1.0000e-005	0.0000	1.4400e-003
<b>Total</b>	<b>0.3732</b>	<b>1.0000e-005</b>	<b>8.6000e-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>1.3200e-003</b>	<b>1.3200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.4400e-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	0.0854					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3200e-003	1.3200e-003	1.0000e-005	0.0000	1.4400e-003
<b>Total</b>	<b>0.3732</b>	<b>1.0000e-005</b>	<b>8.6000e-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>1.3200e-003</b>	<b>1.3200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.4400e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.5890	0.1182	2.8800e-003	15.9657
Unmitigated	12.5890	0.1183	2.8900e-003	15.9675

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	3.61344 / 5.65179	12.5890	0.1183	2.8900e-003	15.9675
<b>Total</b>		<b>12.5890</b>	<b>0.1183</b>	<b>2.8900e-003</b>	<b>15.9675</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	3.61344 / 5.65179	12.5890	0.1182	2.8800e-003	15.9657
<b>Total</b>		<b>12.5890</b>	<b>0.1182</b>	<b>2.8800e-003</b>	<b>15.9657</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.4404	1.1489	0.0000	43.5673
Unmitigated	19.4404	1.1489	0.0000	43.5673

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	95.77	19.4404	1.1489	0.0000	43.5673
<b>Total</b>		<b>19.4404</b>	<b>1.1489</b>	<b>0.0000</b>	<b>43.5673</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	95.77	19.4404	1.1489	0.0000	43.5673
<b>Total</b>		<b>19.4404</b>	<b>1.1489</b>	<b>0.0000</b>	<b>43.5673</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 33**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	25.92	1000sqft	0.60	25,920.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.33 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity



Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2005
tblVehicleTrips	ST_TR	11.23	7.33
tblVehicleTrips	SU_TR	1.21	7.33
tblVehicleTrips	WD_TR	27.49	7.33

## 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	0.1313	0.0000	3.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	5.1000e-004
Energy	3.7900e-003	0.0345	0.0290	2.1000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	115.2954	115.2954	4.2400e-003	1.4200e-003	115.8232
Mobile	0.3179	0.6369	3.4603	5.6300e-003	0.1621	0.0135	0.1756	0.0471	0.0135	0.0606	0.0000	254.0935	254.0935	0.0247	0.0000	254.6120
Waste						0.0000	0.0000		0.0000	0.0000	6.8408	0.0000	6.8408	0.4043	0.0000	15.3307
Water						0.0000	0.0000		0.0000	0.0000	0.4033	4.0260	4.4293	0.0416	1.0200e-003	5.6180
<b>Total</b>	<b>0.4530</b>	<b>0.6714</b>	<b>3.4895</b>	<b>5.8400e-003</b>	<b>0.1621</b>	<b>0.0161</b>	<b>0.1783</b>	<b>0.0471</b>	<b>0.0161</b>	<b>0.0632</b>	<b>7.2441</b>	<b>373.4153</b>	<b>380.6594</b>	<b>0.4748</b>	<b>2.4400e-003</b>	<b>391.3844</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	0.1313	0.0000	3.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	5.1000e-004
Energy	3.7900e-003	0.0345	0.0290	2.1000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	115.2954	115.2954	4.2400e-003	1.4200e-003	115.8232
Mobile	0.3179	0.6369	3.4603	5.6300e-003	0.1621	0.0135	0.1756	0.0471	0.0135	0.0606	0.0000	254.0935	254.0935	0.0247	0.0000	254.6120
Waste						0.0000	0.0000		0.0000	0.0000	6.8408	0.0000	6.8408	0.4043	0.0000	15.3307
Water						0.0000	0.0000		0.0000	0.0000	0.4033	4.0260	4.4293	0.0416	1.0100e-003	5.6174
<b>Total</b>	<b>0.4530</b>	<b>0.6714</b>	<b>3.4895</b>	<b>5.8400e-003</b>	<b>0.1621</b>	<b>0.0161</b>	<b>0.1783</b>	<b>0.0471</b>	<b>0.0161</b>	<b>0.0632</b>	<b>7.2441</b>	<b>373.4153</b>	<b>380.6594</b>	<b>0.4748</b>	<b>2.4300e-003</b>	<b>391.3837</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	0.41	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	1/15/2016	1/15/2016	5	1	
3	Grading	Grading	1/16/2016	1/19/2016	5	2	
4	Building Construction	Building Construction	1/20/2016	6/7/2016	5	100	
5	Paving	Paving	6/8/2016	6/14/2016	5	5	
6	Architectural Coating	Architectural Coating	6/15/2016	6/21/2016	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 38,880; Non-Residential Outdoor: 12,960 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	226	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	11.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</b>

### 3.2 Demolition - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5600e-003	0.0562	0.0435	6.0000e-005		4.0200e-003	4.0200e-003		3.8400e-003	3.8400e-003	0.0000	5.4141	5.4141	1.0800e-003	0.0000	5.4369
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0562</b>	<b>0.0435</b>	<b>6.0000e-005</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>3.8400e-003</b>	<b>3.8400e-003</b>	<b>0.0000</b>	<b>5.4141</b>	<b>5.4141</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>5.4369</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.8000e-004	2.5000e-004	2.4800e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4520	0.4520	2.0000e-005	0.0000	0.4525
<b>Total</b>	<b>1.8000e-004</b>	<b>2.5000e-004</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4520</b>	<b>0.4520</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4525</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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</b>

### 3.3 Site Preparation - 2016

#### 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	6.8200e-003	3.6700e-003	0.0000		4.2000e-004	4.2000e-004		3.8000e-004	3.8000e-004	0.0000	0.4414	0.4414	1.3000e-004	0.0000	0.4442
<b>Total</b>	<b>6.8000e-004</b>	<b>6.8200e-003</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>4.2000e-004</b>	<b>6.9000e-004</b>	<b>3.0000e-005</b>	<b>3.8000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.4414</b>	<b>0.4414</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4442</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.4 Grading - 2016

#### 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0112	8.7000e-003	1.0000e-005		8.0000e-004	8.0000e-004		7.7000e-004	7.7000e-004	0.0000	1.0828	1.0828	2.2000e-004	0.0000	1.0874
<b>Total</b>	<b>1.3100e-003</b>	<b>0.0112</b>	<b>8.7000e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>4.1000e-004</b>	<b>7.7000e-004</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>1.0828</b>	<b>1.0828</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.0874</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4584	53.4584	0.0161	0.0000	53.7970
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4584</b>	<b>53.4584</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7970</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.8700e-003	0.0197	0.0368	5.0000e-005	1.2800e-003	2.8000e-004	1.5600e-003	3.7000e-004	2.6000e-004	6.3000e-004	0.0000	4.1556	4.1556	3.0000e-005	0.0000	4.1563
Worker	1.9800e-003	2.7200e-003	0.0273	7.0000e-005	4.9900e-003	5.0000e-005	5.0300e-003	1.3300e-003	4.0000e-005	1.3700e-003	0.0000	4.9724	4.9724	2.6000e-004	0.0000	4.9779
<b>Total</b>	<b>4.8500e-003</b>	<b>0.0225</b>	<b>0.0641</b>	<b>1.2000e-004</b>	<b>6.2700e-003</b>	<b>3.3000e-004</b>	<b>6.5900e-003</b>	<b>1.7000e-003</b>	<b>3.0000e-004</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>9.1280</b>	<b>9.1280</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>9.1342</b>

### 3.5 Building Construction - 2016

#### 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	0.0691	0.6853	0.4106	5.7000e-004		0.0470	0.0470		0.0432	0.0432	0.0000	53.4583	53.4583	0.0161	0.0000	53.7969
<b>Total</b>	<b>0.0691</b>	<b>0.6853</b>	<b>0.4106</b>	<b>5.7000e-004</b>		<b>0.0470</b>	<b>0.0470</b>		<b>0.0432</b>	<b>0.0432</b>	<b>0.0000</b>	<b>53.4583</b>	<b>53.4583</b>	<b>0.0161</b>	<b>0.0000</b>	<b>53.7969</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.8700e-003	0.0197	0.0368	5.0000e-005	1.2800e-003	2.8000e-004	1.5600e-003	3.7000e-004	2.6000e-004	6.3000e-004	0.0000	4.1556	4.1556	3.0000e-005	0.0000	4.1563
Worker	1.9800e-003	2.7200e-003	0.0273	7.0000e-005	4.9900e-003	5.0000e-005	5.0300e-003	1.3300e-003	4.0000e-005	1.3700e-003	0.0000	4.9724	4.9724	2.6000e-004	0.0000	4.9779
<b>Total</b>	<b>4.8500e-003</b>	<b>0.0225</b>	<b>0.0641</b>	<b>1.2000e-004</b>	<b>6.2700e-003</b>	<b>3.3000e-004</b>	<b>6.5900e-003</b>	<b>1.7000e-003</b>	<b>3.0000e-004</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>9.1280</b>	<b>9.1280</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>9.1342</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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</b>

### 3.6 Paving - 2016

#### 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	2.8000e-003	0.0266	0.0182	3.0000e-005		1.6500e-003	1.6500e-003		1.5300e-003	1.5300e-003	0.0000	2.4575	2.4575	6.7000e-004	0.0000	2.4717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-003</b>	<b>0.0266</b>	<b>0.0182</b>	<b>3.0000e-005</b>		<b>1.6500e-003</b>	<b>1.6500e-003</b>		<b>1.5300e-003</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>2.4575</b>	<b>2.4575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4717</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.2000e-004	2.2300e-003	1.0000e-005	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4068	0.4068	2.0000e-005	0.0000	0.4073
<b>Total</b>	<b>1.6000e-004</b>	<b>2.2000e-004</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4068</b>	<b>0.4068</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4073</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	0.3004					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>0.3013</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</b>

### 3.7 Architectural Coating - 2016

#### 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	0.3004					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>0.3013</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>

#### 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	2.0000e-005	2.0000e-005	2.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0452	0.0452	0.0000	0.0000	0.0453
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0452</b>	<b>0.0452</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0453</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	0.3179	0.6369	3.4603	5.6300e-003	0.1621	0.0135	0.1756	0.0471	0.0135	0.0606	0.0000	254.0935	254.0935	0.0247	0.0000	254.6120
Unmitigated	0.3179	0.6369	3.4603	5.6300e-003	0.1621	0.0135	0.1756	0.0471	0.0135	0.0606	0.0000	254.0935	254.0935	0.0247	0.0000	254.6120

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	189.99	189.99	189.99	482,496	482,496
Total	189.99	189.99	189.99	482,496	482,496

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 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	77.7418	77.7418	3.5200e-003	7.3000e-004	78.0411
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	77.7418	77.7418	3.5200e-003	7.3000e-004	78.0411
NaturalGas Mitigated	3.7900e-003	0.0345	0.0290	2.1000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	37.5536	37.5536	7.2000e-004	6.9000e-004	37.7822
NaturalGas Unmitigated	3.7900e-003	0.0345	0.0290	2.1000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	37.5536	37.5536	7.2000e-004	6.9000e-004	37.7822

### 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					
Junior College (2Yr)	703728	3.7900e-003	0.0345	0.0290	2.1000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	37.5536	37.5536	7.2000e-004	6.9000e-004	37.7822
<b>Total</b>		<b>3.7900e-003</b>	<b>0.0345</b>	<b>0.0290</b>	<b>2.1000e-004</b>		<b>2.6200e-003</b>	<b>2.6200e-003</b>		<b>2.6200e-003</b>	<b>2.6200e-003</b>	<b>0.0000</b>	<b>37.5536</b>	<b>37.5536</b>	<b>7.2000e-004</b>	<b>6.9000e-004</b>	<b>37.7822</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					
Junior College (2Yr)	703728	3.7900e-003	0.0345	0.0290	2.1000e-004		2.6200e-003	2.6200e-003		2.6200e-003	2.6200e-003	0.0000	37.5536	37.5536	7.2000e-004	6.9000e-004	37.7822
<b>Total</b>		<b>3.7900e-003</b>	<b>0.0345</b>	<b>0.0290</b>	<b>2.1000e-004</b>		<b>2.6200e-003</b>	<b>2.6200e-003</b>		<b>2.6200e-003</b>	<b>2.6200e-003</b>	<b>0.0000</b>	<b>37.5536</b>	<b>37.5536</b>	<b>7.2000e-004</b>	<b>6.9000e-004</b>	<b>37.7822</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	267235	77.7418	3.5200e-003	7.3000e-004	78.0411
<b>Total</b>		<b>77.7418</b>	<b>3.5200e-003</b>	<b>7.3000e-004</b>	<b>78.0411</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	267235	77.7418	3.5200e-003	7.3000e-004	78.0411
<b>Total</b>		<b>77.7418</b>	<b>3.5200e-003</b>	<b>7.3000e-004</b>	<b>78.0411</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	0.1313	0.0000	3.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	5.1000e-004
Unmitigated	0.1313	0.0000	3.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	5.1000e-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	0.0300					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1012					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	3.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	5.1000e-004
<b>Total</b>	<b>0.1313</b>	<b>0.0000</b>	<b>3.0000e-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>4.6000e-004</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.1000e-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	0.0300					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1012					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	3.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	5.1000e-004
<b>Total</b>	<b>0.1313</b>	<b>0.0000</b>	<b>3.0000e-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>4.6000e-004</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.1000e-004</b>

### 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.4293	0.0416	1.0100e-003	5.6174
Unmitigated	4.4293	0.0416	1.0200e-003	5.6180

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	1.27135 / 1.98852	4.4293	0.0416	1.0200e-003	5.6180
<b>Total</b>		<b>4.4293</b>	<b>0.0416</b>	<b>1.0200e-003</b>	<b>5.6180</b>



## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	1.27135 / 1.98852	4.4293	0.0416	1.0100e-003	5.6174
<b>Total</b>		<b>4.4293</b>	<b>0.0416</b>	<b>1.0100e-003</b>	<b>5.6174</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.8408	0.4043	0.0000	15.3307
Unmitigated	6.8408	0.4043	0.0000	15.3307

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	33.7	6.8408	0.4043	0.0000	15.3307
<b>Total</b>		<b>6.8408</b>	<b>0.4043</b>	<b>0.0000</b>	<b>15.3307</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	33.7	6.8408	0.4043	0.0000	15.3307
<b>Total</b>		<b>6.8408</b>	<b>0.4043</b>	<b>0.0000</b>	<b>15.3307</b>

## 9.0 Operational Offroad

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

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**AAU Existing Site 34**  
**San Francisco County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	113.44	1000sqft	2.60	113,436.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 -

Vehicle Trips - Vehicle trips are based on project specific traffic study there are 7.405 non-shuttle vehicle trips. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	35.21	26.41
tblProjectCharacteristics	OperationalYear	2014	2005
tblVehicleTrips	ST_TR	11.23	7.41
tblVehicleTrips	SU_TR	1.21	7.41
tblVehicleTrips	WD_TR	27.49	7.41

## 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	0.5746	2.0000e-005	1.3300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.2300e-003
Energy	0.0166	0.1510	0.1268	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	504.5775	504.5775	0.0185	6.2000e-003	506.8874
Mobile	1.4056	2.8157	15.2983	0.0249	0.7168	0.0598	0.7765	0.2081	0.0598	0.2678	0.0000	1,123.3898	1,123.3898	0.1092	0.0000	1,125.6823
Waste						0.0000	0.0000		0.0000	0.0000	29.9351	0.0000	29.9351	1.7691	0.0000	67.0864
Water						0.0000	0.0000		0.0000	0.0000	1.7652	17.6198	19.3850	0.1821	4.4500e-003	24.5874
<b>Total</b>	<b>1.9968</b>	<b>2.9667</b>	<b>15.4265</b>	<b>0.0258</b>	<b>0.7168</b>	<b>0.0712</b>	<b>0.7880</b>	<b>0.2081</b>	<b>0.0712</b>	<b>0.2793</b>	<b>31.7003</b>	<b>1,645.5891</b>	<b>1,677.2894</b>	<b>2.0789</b>	<b>0.0107</b>	<b>1,724.2459</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	0.5746	2.0000e-005	1.3300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.2300e-003
Energy	0.0166	0.1510	0.1268	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	504.5775	504.5775	0.0185	6.2000e-003	506.8874
Mobile	1.4056	2.8157	15.2983	0.0249	0.7168	0.0598	0.7765	0.2081	0.0598	0.2678	0.0000	1,123.3898	1,123.3898	0.1092	0.0000	1,125.6823
Waste						0.0000	0.0000		0.0000	0.0000	29.9351	0.0000	29.9351	1.7691	0.0000	67.0864
Water						0.0000	0.0000		0.0000	0.0000	1.7652	17.6198	19.3850	0.1821	4.4400e-003	24.5846
<b>Total</b>	<b>1.9968</b>	<b>2.9667</b>	<b>15.4265</b>	<b>0.0258</b>	<b>0.7168</b>	<b>0.0712</b>	<b>0.7880</b>	<b>0.2081</b>	<b>0.0712</b>	<b>0.2793</b>	<b>31.7003</b>	<b>1,645.5891</b>	<b>1,677.2894</b>	<b>2.0789</b>	<b>0.0106</b>	<b>1,724.2431</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	0.09	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	1/28/2016	5	20	
2	Site Preparation	Site Preparation	1/29/2016	2/2/2016	5	3	
3	Grading	Grading	2/3/2016	2/10/2016	5	6	
4	Building Construction	Building Construction	2/11/2016	12/14/2016	5	220	
5	Paving	Paving	12/15/2016	12/28/2016	5	10	
6	Architectural Coating	Architectural Coating	12/29/2016	1/11/2017	5	10	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 170,154; Non-Residential Outdoor: 56,718 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Scrapers	1	8.00	361	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	48.00	19.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Off-Road	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5629	22.5629	5.7000e-003	0.0000	22.6827
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5629</b>	<b>22.5629</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6827</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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	0.0291	0.2826	0.2150	2.4000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	22.5628	22.5628	5.7000e-003	0.0000	22.6826
<b>Total</b>	<b>0.0291</b>	<b>0.2826</b>	<b>0.2150</b>	<b>2.4000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>22.5628</b>	<b>22.5628</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>22.6826</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	0.0000	0.0000	0.0000	0.0000	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	4.7000e-004	6.4000e-004	6.4500e-003	2.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1753	1.1753	6.0000e-005	0.0000	1.1766
<b>Total</b>	<b>4.7000e-004</b>	<b>6.4000e-004</b>	<b>6.4500e-003</b>	<b>2.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1753</b>	<b>1.1753</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1766</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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0500e-003	0.0462	0.0271	4.0000e-005		2.2700e-003	2.2700e-003		2.0900e-003	2.0900e-003	0.0000	3.3749	3.3749	1.0200e-003	0.0000	3.3962
<b>Total</b>	<b>4.0500e-003</b>	<b>0.0462</b>	<b>0.0271</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>2.2700e-003</b>	<b>4.6600e-003</b>	<b>2.6000e-004</b>	<b>2.0900e-003</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>3.3749</b>	<b>3.3749</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>3.3962</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	4.0000e-005	6.0000e-005	6.0000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1085	0.1085	1.0000e-005	0.0000	0.1086
<b>Total</b>	<b>4.0000e-005</b>	<b>6.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1085</b>	<b>0.1085</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1086</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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0500e-003	0.0462	0.0271	4.0000e-005		2.2700e-003	2.2700e-003		2.0900e-003	2.0900e-003	0.0000	3.3749	3.3749	1.0200e-003	0.0000	3.3962
<b>Total</b>	<b>4.0500e-003</b>	<b>0.0462</b>	<b>0.0271</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>2.2700e-003</b>	<b>4.6600e-003</b>	<b>2.6000e-004</b>	<b>2.0900e-003</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>3.3749</b>	<b>3.3749</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>3.3962</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	4.0000e-005	6.0000e-005	6.0000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1085	0.1085	1.0000e-005	0.0000	0.1086
<b>Total</b>	<b>4.0000e-005</b>	<b>6.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1085</b>	<b>0.1085</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1086</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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5600e-003	0.0898	0.0589	6.0000e-005		5.0000e-003	5.0000e-003		4.6000e-003	4.6000e-003	0.0000	5.8222	5.8222	1.7600e-003	0.0000	5.8590
<b>Total</b>	<b>8.5600e-003</b>	<b>0.0898</b>	<b>0.0589</b>	<b>6.0000e-005</b>	<b>0.0197</b>	<b>5.0000e-003</b>	<b>0.0247</b>	<b>0.0101</b>	<b>4.6000e-003</b>	<b>0.0147</b>	<b>0.0000</b>	<b>5.8222</b>	<b>5.8222</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.8590</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	0.0000	0.0000	0.0000	0.0000	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	1.4900e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2712	0.2712	1.0000e-005	0.0000	0.2715
<b>Total</b>	<b>1.1000e-004</b>	<b>1.5000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2712</b>	<b>0.2712</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2715</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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5600e-003	0.0898	0.0589	6.0000e-005		5.0000e-003	5.0000e-003		4.6000e-003	4.6000e-003	0.0000	5.8221	5.8221	1.7600e-003	0.0000	5.8590
<b>Total</b>	<b>8.5600e-003</b>	<b>0.0898</b>	<b>0.0589</b>	<b>6.0000e-005</b>	<b>0.0197</b>	<b>5.0000e-003</b>	<b>0.0247</b>	<b>0.0101</b>	<b>4.6000e-003</b>	<b>0.0147</b>	<b>0.0000</b>	<b>5.8221</b>	<b>5.8221</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.8590</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	0.0000	0.0000	0.0000	0.0000	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	1.4900e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2712	0.2712	1.0000e-005	0.0000	0.2715
<b>Total</b>	<b>1.1000e-004</b>	<b>1.5000e-004</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2712</b>	<b>0.2712</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2715</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	0.4068	2.7095	1.8388	2.7400e-003		0.1788	0.1788		0.1713	0.1713	0.0000	234.7292	234.7292	0.0541	0.0000	235.8650
<b>Total</b>	<b>0.4068</b>	<b>2.7095</b>	<b>1.8388</b>	<b>2.7400e-003</b>		<b>0.1788</b>	<b>0.1788</b>		<b>0.1713</b>	<b>0.1713</b>	<b>0.0000</b>	<b>234.7292</b>	<b>234.7292</b>	<b>0.0541</b>	<b>0.0000</b>	<b>235.8650</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
Vendor	0.0300	0.2063	0.3844	4.8000e-004	0.0134	2.9700e-003	0.0163	3.8300e-003	2.7300e-003	6.5600e-003	0.0000	43.4263	43.4263	3.4000e-004	0.0000	43.4336
Worker	0.0190	0.0261	0.2619	6.3000e-004	0.0479	4.4000e-004	0.0483	0.0127	4.0000e-004	0.0131	0.0000	47.7348	47.7348	2.5300e-003	0.0000	47.7879
<b>Total</b>	<b>0.0490</b>	<b>0.2324</b>	<b>0.6463</b>	<b>1.1100e-003</b>	<b>0.0613</b>	<b>3.4100e-003</b>	<b>0.0647</b>	<b>0.0166</b>	<b>3.1300e-003</b>	<b>0.0197</b>	<b>0.0000</b>	<b>91.1611</b>	<b>91.1611</b>	<b>2.8700e-003</b>	<b>0.0000</b>	<b>91.2214</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	0.4068	2.7095	1.8388	2.7400e-003		0.1788	0.1788		0.1713	0.1713	0.0000	234.7289	234.7289	0.0541	0.0000	235.8647
<b>Total</b>	<b>0.4068</b>	<b>2.7095</b>	<b>1.8388</b>	<b>2.7400e-003</b>		<b>0.1788</b>	<b>0.1788</b>		<b>0.1713</b>	<b>0.1713</b>	<b>0.0000</b>	<b>234.7289</b>	<b>234.7289</b>	<b>0.0541</b>	<b>0.0000</b>	<b>235.8647</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	0.0300	0.2063	0.3844	4.8000e-004	0.0134	2.9700e-003	0.0163	3.8300e-003	2.7300e-003	6.5600e-003	0.0000	43.4263	43.4263	3.4000e-004	0.0000	43.4336
Worker	0.0190	0.0261	0.2619	6.3000e-004	0.0479	4.4000e-004	0.0483	0.0127	4.0000e-004	0.0131	0.0000	47.7348	47.7348	2.5300e-003	0.0000	47.7879
<b>Total</b>	<b>0.0490</b>	<b>0.2324</b>	<b>0.6463</b>	<b>1.1100e-003</b>	<b>0.0613</b>	<b>3.4100e-003</b>	<b>0.0647</b>	<b>0.0166</b>	<b>3.1300e-003</b>	<b>0.0197</b>	<b>0.0000</b>	<b>91.1611</b>	<b>91.1611</b>	<b>2.8700e-003</b>	<b>0.0000</b>	<b>91.2214</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	8.9100e-003	0.0897	0.0607	9.0000e-005		5.6300e-003	5.6300e-003		5.1800e-003	5.1800e-003	0.0000	8.1867	8.1867	2.4200e-003	0.0000	8.2376
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.9100e-003</b>	<b>0.0897</b>	<b>0.0607</b>	<b>9.0000e-005</b>		<b>5.6300e-003</b>	<b>5.6300e-003</b>		<b>5.1800e-003</b>	<b>5.1800e-003</b>	<b>0.0000</b>	<b>8.1867</b>	<b>8.1867</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>8.2376</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	2.7000e-004	3.7000e-004	3.7200e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6781	0.6781	4.0000e-005	0.0000	0.6788
<b>Total</b>	<b>2.7000e-004</b>	<b>3.7000e-004</b>	<b>3.7200e-003</b>	<b>1.0000e-005</b>	<b>6.8000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>1.8000e-004</b>	<b>1.0000e-005</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.6781</b>	<b>0.6781</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6788</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	8.9100e-003	0.0897	0.0607	9.0000e-005		5.6300e-003	5.6300e-003		5.1800e-003	5.1800e-003	0.0000	8.1867	8.1867	2.4200e-003	0.0000	8.2376
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.9100e-003</b>	<b>0.0897</b>	<b>0.0607</b>	<b>9.0000e-005</b>		<b>5.6300e-003</b>	<b>5.6300e-003</b>		<b>5.1800e-003</b>	<b>5.1800e-003</b>	<b>0.0000</b>	<b>8.1867</b>	<b>8.1867</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>8.2376</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	2.7000e-004	3.7000e-004	3.7200e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6781	0.6781	4.0000e-005	0.0000	0.6788
<b>Total</b>	<b>2.7000e-004</b>	<b>3.7000e-004</b>	<b>3.7200e-003</b>	<b>1.0000e-005</b>	<b>6.8000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>1.8000e-004</b>	<b>1.0000e-005</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.6781</b>	<b>0.6781</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6788</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	0.2629					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7000e-004	2.3700e-003	1.8800e-003	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.2553	0.2553	3.0000e-005	0.0000	0.2560
<b>Total</b>	<b>0.2633</b>	<b>2.3700e-003</b>	<b>1.8800e-003</b>	<b>0.0000</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.2553</b>	<b>0.2553</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.2560</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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905	
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</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	0.2629					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	3.7000e-004	2.3700e-003	1.8800e-003	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.2553	0.2553	3.0000e-005	0.0000	0.2560	
<b>Total</b>	<b>0.2633</b>	<b>2.3700e-003</b>	<b>1.8800e-003</b>	<b>0.0000</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.2553</b>	<b>0.2553</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.2560</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	4.0000e-005	5.0000e-005	5.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0904	0.0904	0.0000	0.0000	0.0905
<b>Total</b>	<b>4.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0904</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0905</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0516					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	8.7400e-003	7.4700e-003	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	1.0213	1.0213	1.1000e-004	0.0000	1.0236
<b>Total</b>	<b>1.0529</b>	<b>8.7400e-003</b>	<b>7.4700e-003</b>	<b>1.0000e-005</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>1.0213</b>	<b>1.0213</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.0236</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.3000e-004	1.8000e-004	1.7900e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3478	0.3478	2.0000e-005	0.0000	0.3482
<b>Total</b>	<b>1.3000e-004</b>	<b>1.8000e-004</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.7000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3478</b>	<b>0.3478</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3482</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	1.0516					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	8.7400e-003	7.4700e-003	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	1.0213	1.0213	1.1000e-004	0.0000	1.0236
<b>Total</b>	<b>1.0529</b>	<b>8.7400e-003</b>	<b>7.4700e-003</b>	<b>1.0000e-005</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>1.0213</b>	<b>1.0213</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.0236</b>



### 3.7 Architectural Coating - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.3000e-004	1.8000e-004	1.7900e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3478	0.3478	2.0000e-005	0.0000	0.3482
<b>Total</b>	<b>1.3000e-004</b>	<b>1.8000e-004</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.7000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3478</b>	<b>0.3478</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3482</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	1.4056	2.8157	15.2983	0.0249	0.7168	0.0598	0.7765	0.2081	0.0598	0.2678	0.0000	1,123.3898	1,123.3898	0.1092	0.0000	1,125.6823
Unmitigated	1.4056	2.8157	15.2983	0.0249	0.7168	0.0598	0.7765	0.2081	0.0598	0.2678	0.0000	1,123.3898	1,123.3898	0.1092	0.0000	1,125.6823

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	839.99	839.99	839.99	2,133,195	2,133,195
Total	839.99	839.99	839.99	2,133,195	2,133,195

### 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
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.597085	0.111937	0.169880	0.057603	0.006031	0.005264	0.027471	0.003517	0.002007	0.010168	0.007576	0.000885	0.000576

### 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	340.2283	340.2283	0.0154	3.1800e-003	341.5381
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	340.2283	340.2283	0.0154	3.1800e-003	341.5381
NaturalGas Mitigated	0.0166	0.1510	0.1268	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.3492	164.3492	3.1500e-003	3.0100e-003	165.3494
NaturalGas Unmitigated	0.0166	0.1510	0.1268	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.3492	164.3492	3.1500e-003	3.0100e-003	165.3494

**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					
Junior College (2Yr)	3.07979e+006	0.0166	0.1510	0.1268	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.3492	164.3492	3.1500e-003	3.0100e-003	165.3494
<b>Total</b>		<b>0.0166</b>	<b>0.1510</b>	<b>0.1268</b>	<b>9.1000e-004</b>		<b>0.0115</b>	<b>0.0115</b>		<b>0.0115</b>	<b>0.0115</b>	<b>0.0000</b>	<b>164.3492</b>	<b>164.3492</b>	<b>3.1500e-003</b>	<b>3.0100e-003</b>	<b>165.3494</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					
Junior College (2Yr)	3.07979e+006	0.0166	0.1510	0.1268	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.3492	164.3492	3.1500e-003	3.0100e-003	165.3494
<b>Total</b>		<b>0.0166</b>	<b>0.1510</b>	<b>0.1268</b>	<b>9.1000e-004</b>		<b>0.0115</b>	<b>0.0115</b>		<b>0.0115</b>	<b>0.0115</b>	<b>0.0000</b>	<b>164.3492</b>	<b>164.3492</b>	<b>3.1500e-003</b>	<b>3.0100e-003</b>	<b>165.3494</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	1.16953e+006	340.2283	0.0154	3.1800e-003	341.5381
<b>Total</b>		<b>340.2283</b>	<b>0.0154</b>	<b>3.1800e-003</b>	<b>341.5381</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	1.16953e+006	340.2283	0.0154	3.1800e-003	341.5381
<b>Total</b>		<b>340.2283</b>	<b>0.0154</b>	<b>3.1800e-003</b>	<b>341.5381</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	0.5746	2.0000e-005	1.3300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.2300e-003
Unmitigated	0.5746	2.0000e-005	1.3300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.2300e-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	0.1314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.3300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.2300e-003
<b>Total</b>	<b>0.5746</b>	<b>2.0000e-005</b>	<b>1.3300e-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>0.0000</b>	<b>2.0300e-003</b>	<b>2.0300e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.2300e-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	0.1314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.3300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.0300e-003	2.0300e-003	1.0000e-005	0.0000	2.2300e-003
<b>Total</b>	<b>0.5746</b>	<b>2.0000e-005</b>	<b>1.3300e-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>0.0000</b>	<b>2.0300e-003</b>	<b>2.0300e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.2300e-003</b>

### 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	19.3850	0.1821	4.4400e-003	24.5846
Unmitigated	19.3850	0.1821	4.4500e-003	24.5874

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	5.56412 / 8.70286	19.3850	0.1821	4.4500e-003	24.5874
<b>Total</b>		<b>19.3850</b>	<b>0.1821</b>	<b>4.4500e-003</b>	<b>24.5874</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	5.56412 / 8.70286	19.3850	0.1821	4.4400e-003	24.5846
<b>Total</b>		<b>19.3850</b>	<b>0.1821</b>	<b>4.4400e-003</b>	<b>24.5846</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	29.9351	1.7691	0.0000	67.0864
Unmitigated	29.9351	1.7691	0.0000	67.0864



## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	147.47	29.9351	1.7691	0.0000	67.0864
<b>Total</b>		<b>29.9351</b>	<b>1.7691</b>	<b>0.0000</b>	<b>67.0864</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	147.47	29.9351	1.7691	0.0000	67.0864
<b>Total</b>		<b>29.9351</b>	<b>1.7691</b>	<b>0.0000</b>	<b>67.0864</b>

## 9.0 Operational Offroad

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

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## **4. Boiler Modeling Assumptions and Emissions**

Existing Site No.	Equipment Description	Make	Model #	Serial #	Unit Location	Age	Installed after AAU Occupation?	HP	MMBTU/hr	ROG [g/bhp-hr]/[lb/MMBtu]	NOx [g/bhp-hr]/[lb/MMBtu]	PM10 [g/bhp-hr]/[lb/MMBtu]	PM2.5 [g/bhp-hr]/[lb/MMBtu]	Operation hpd	ROG ppd	NOx ppd	PM10 ppd	PM2.5 ppd	ROG tpy	NOx tpy	PM10 tpy	PM2.5 tpy	
1	No Boiler						No Boiler																
2	No Boiler						No Boiler																
3	Domestic Hot Water Boiler	AO Smith	HW670102	C0716603	Boiler Room	2007	Yes		2	0.0054	0.0490	0.0075	0.0075	24	0.26	2.35	0.36	0.36	0.05	0.43	0.07	0.07	
4	No Boiler						No Boiler																
5	Domestic Hot Water Boiler	Laars	TL08199NSKD	A07N0164	Boiler Room	1999	Yes		1.99	0.0054	0.0490	0.0075	0.0075	24	0.26	2.34	0.36	0.36	0.05	0.43	0.06	0.06	
	Domestic Hot Water Boiler	Bosch	GWH1600PNG	88500130	Kitchen	2001	Yes		1.17	0.0054	0.0490	0.0075	0.0075	24	0.15	1.38	0.21	0.21	0.03	0.25	0.04	0.04	
															0.41	3.72	0.57	0.57	0.07	0.68	0.10	0.10	
														total	0.82	7.44	1.13	1.13	0.15	1.36	0.21	0.21	
6	Heating Steam Boiler	Peerless	SC/DCT-09-WS	88003-2002	Mezzanine	2006	Yes		0.722	0.0054	0.0490	0.0075	0.0075	24	0.09	0.85	0.13	0.13	0.02	0.16	0.02	0.02	
8	No Boiler						No Boiler																
9	Heating Boiler	American Radiator	W/F	W/F	Boiler Room	1994	No																
10	No Boiler						No Boiler																
11	Heating Steam Boiler	Peerless	G2-09-W/8-1	1-92509-099	ment Boiler R	1998	Yes		0.722	0.0054	0.0490	0.0075	0.0075	24	0.09	0.85	0.13	0.13	0.02	0.16	0.02	0.02	
	Domestic Hot Water Boiler	Teledyne	W0250CN120BA	A96C10112	ment Boiler R	1996	No																
12	Heating Steam Boiler	Peerless	G108	W/F	Boiler Room	1994	No																
	Domestic Hot Water Boiler	Laars	W0325CN12C BK	E03C601097	Boiler Room	2003	Yes		1.99	0.0054	0.0490	0.0075	0.0075	24	0.26	2.34	0.36	0.36	0.05	0.43	0.06	0.06	
13	Heating Steam Boiler	Peerless	LC-06-W/S	23436-2006	Boiler Room #	2010	Yes		0.722	0.0054	0.0490	0.0075	0.0075	24	0.09	0.85	0.13	0.13	0.02	0.16	0.02	0.02	
14	Domestic Hot Water Boiler	AO Smith	8C300760	60D844422	Boiler Room	1984	No																
	Domestic Hot Water Boiler	AO Smith	8C300760	60D844422	Boiler Room	1984	No																
	Heating Steam Boiler	Peerless	211A-A-6-5-1	1A-6101-01	Boiler Room	1991	No																
16	No Boiler						No Boiler																
17	Domestic Hot Water Boiler	AO Smith	HW300932	9-324E+10	Boiler Room #	1999	No																
	Heating Steam Boiler	W/F	W/F	W/F	Boiler Room #	1974	No																
	Heating Steam Boiler	PSBC	2994-L	114239	Boiler Room #	1974	No																
	Heating Steam Boiler	PSBC	2994-L	115929	Boiler Room #	1974	No																
20	Pool Hot Water Boiler	AO Smith	HW520	E0717110	Basement	2009	Yes		0.52	0.0054	0.0490	0.0075	0.0075	24	0.07	0.61	0.09	0.09	0.01	0.11	0.02	0.02	
23	Domestic Hot Water Boiler	AO Smith	8C670780	ABSS0943	Basement	1994	No																
27	No Boiler						No Boiler																
28	No Boiler						No Boiler																
30	Generator Set	Onan	DFHD-3389077	8000065067	ment Garage	2004	No																
	Engine	Cummins	GST 30-65	37191702	ment Garage	2004	No																
31	Heating Water Boiler	Ajax	WNG1500-W	59588	Roof	2001	No																
33	No Boiler						No Boiler																
34	Generator Set	Caterpillar	3512	24209711	or Generator	2008	Yes	1250	-	0.54	6.544	0.193	0.193	0.136986301	0.20	2.47	0.07	0.07	0.04	0.45	0.01	0.01	
34	Generator Set	Caterpillar	3512DITA	24209711	or Generator	2008	Yes																

Source:

1. Boiler and generator emission factors were obtained from AP-42 and CalEEMod Appendix D.

## **5. AAU Shuttle Bus Modeling Assumptions and Criteria Pollutant Emissions**

**Academy of the Arts University  
Shuttle Bus Criteria Pollutant Emissions**

Shuttle Stop	% total runs	# bus runs	miles/run	total mile/day	Emission (lbs/day)			
					ROG	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
620 Sutter	14.5%	42.4	5.1	216.4	0.110	0.669	4.584	0.300
860 Sutter	14.5%	42.4	5.1	216.4	0.110	0.669	4.584	0.300
701 Chestnut	1.9%	5.7	5.1	29.0	0.015	0.090	0.614	0.040
2300 Stockton (Northpoint)	1.9%	5.7	5.1	29.0	0.015	0.090	0.614	0.040
2209 Van Ness	2.6%	7.6	5.1	38.6	0.020	0.119	0.817	0.054
1849 Washington (Warehouse)	2.6%	7.6	5.1	38.6	0.020	0.119	0.817	0.054
79 New Montgomery	13.3%	38.9	5.1	198.4	0.101	0.614	4.202	0.275
60 Federal	12.2%	35.6	5.1	181.5	0.093	0.562	3.846	0.252
601 Brannan	12.2%	35.6	5.1	181.5	0.093	0.562	3.846	0.252
466 Townsend	12.2%	35.6	5.1	181.5	0.093	0.562	3.846	0.252
491 Post	7.2%	20.9	5.1	106.9	0.054	0.331	2.264	0.148
1727 Lombard	1.0%	2.9	5.1	14.6	0.007	0.045	0.309	0.020
1916 Octavia	0.8%	2.3	5.1	11.8	0.006	0.037	0.250	0.016
410 Bush	1.1%	3.3	5.1	16.8	0.009	0.052	0.357	0.023
Study Areas	N/A	292	5.90	1,723.70	0.879	5.435	36.515	2.392

**Emission Factors**

	Fleet Average		Van Only		Bus Only	
	g/mile	lbs/mile	g/mile	lbs/mile	g/mile	lbs/mile
ROG	0.23	0.00051	0.42	0.00093	0.19	0.00042
NO <sub>x</sub>	1.40	0.00309	1.28	0.00282	1.43	0.00315
PM <sub>10</sub>	9.61	0.02118	0.00	0.00001	11.69	0.02576
PM <sub>2.5</sub>	0.63	0.00139	0.00	0.00000	0.76	0.00169

Source: EMFAC2011

**6. CalEEMod Cumulative Year 2010 Outputs– Summer (pounds per day)**

## AAU Cumulative Year 2010 San Francisco County, Summer

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	940.80	1000sqft	21.60	940,804.00	0
Apartment Mid Rise	502.00	Dwelling Unit	13.21	502,000.00	1053

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2010
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 - Total dwelling units and square footage according to information provided in in Table A-1 of the ESTM

Construction Phase - Only operational emissions are used. Construction emissions from this CalEEMod run were not used in the construction AQ analysis.

Architectural Coating -

Vehicle Trips - Vehicle trips are based on project specific traffic study. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Woodstoves - Assumed no fireplaces or woodstoves.

Energy Use - Adjust for 2013 Title 24 Energy Intensity



Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	7,191.67	5,393.75
tblEnergyUse	T24NG	35.21	26.40
tblFireplaces	NumberGas	276.10	0.00
tblFireplaces	NumberWood	70.28	0.00
tblLandUse	LandUseSquareFeet	940,800.00	940,804.00
tblLandUse	Population	1,436.00	1,053.00
tblProjectCharacteristics	OperationalYear	2014	2010
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	11.23	1.16
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	27.49	5.80
tblWoodstoves	NumberCatalytic	2.51	0.00
tblWoodstoves	NumberNoncatalytic	2.51	0.00

## 2.0 Emissions Summary

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	8.0468	69.6699	83.2174	0.1699	18.2360	3.3188	20.9917	9.9757	3.0533	12.5109	0.0000	15,045.45 55	15,045.45 55	1.9442	0.0000	15,086.28 30
2018	6.9118	42.0433	74.8904	0.1695	8.5119	1.7880	10.3000	2.2850	1.6753	3.9602	0.0000	14,630.55 81	14,630.55 81	1.0177	0.0000	14,651.92 88
2019	6.3383	38.2250	71.1686	0.1696	8.5127	1.5622	10.0748	2.2852	1.4636	3.7488	0.0000	14,271.92 16	14,271.92 16	0.9848	0.0000	14,292.60 21
2020	307.5363	34.0938	67.1882	0.1696	8.5130	1.3661	9.8792	2.2853	1.2799	3.5652	0.0000	13,848.96 54	13,848.96 54	0.9583	0.0000	13,869.09 04
<b>Total</b>	<b>328.8332</b>	<b>184.0319</b>	<b>296.4646</b>	<b>0.6786</b>	<b>43.7736</b>	<b>8.0351</b>	<b>51.2456</b>	<b>16.8311</b>	<b>7.4721</b>	<b>23.7851</b>	<b>0.0000</b>	<b>57,796.90 06</b>	<b>57,796.90 06</b>	<b>4.9050</b>	<b>0.0000</b>	<b>57,899.90 44</b>



## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	42.7450	0.5294	44.1822	2.1900e-003		0.2184	0.2184		0.2184	0.2184	0.0000	74.7792	74.7792	0.0916	0.0000	76.7025
Energy	0.8591	7.7526	6.1415	0.0469		0.5935	0.5935		0.5935	0.5935		9,371.6058	9,371.6058	0.1796	0.1718	9,428.6399
Mobile	33.0857	70.8284	330.4472	0.4399	29.8806	1.4415	31.3221	8.0749	1.3220	9.3969		43,621.5978	43,621.5978	2.7189		43,678.6952
<b>Total</b>	<b>76.6898</b>	<b>79.1104</b>	<b>380.7709</b>	<b>0.4890</b>	<b>29.8806</b>	<b>2.2533</b>	<b>32.1340</b>	<b>8.0749</b>	<b>2.1339</b>	<b>10.2088</b>	<b>0.0000</b>	<b>53,067.9827</b>	<b>53,067.9827</b>	<b>2.9901</b>	<b>0.1718</b>	<b>53,184.0376</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	42.7450	0.5294	44.1822	2.1900e-003		0.2184	0.2184		0.2184	0.2184	0.0000	74.7792	74.7792	0.0916	0.0000	76.7025
Energy	0.8591	7.7526	6.1415	0.0469		0.5935	0.5935		0.5935	0.5935		9,371.6058	9,371.6058	0.1796	0.1718	9,428.6399
Mobile	33.0857	70.8284	330.4472	0.4399	29.8806	1.4415	31.3221	8.0749	1.3220	9.3969		43,621.5978	43,621.5978	2.7189		43,678.6952
<b>Total</b>	<b>76.6898</b>	<b>79.1104</b>	<b>380.7709</b>	<b>0.4890</b>	<b>29.8806</b>	<b>2.2533</b>	<b>32.1340</b>	<b>8.0749</b>	<b>2.1339</b>	<b>10.2088</b>	<b>0.0000</b>	<b>53,067.9827</b>	<b>53,067.9827</b>	<b>2.9901</b>	<b>0.1718</b>	<b>53,184.0376</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	1/1/2017	3/10/2017	5	50	
2	Site Preparation	Site Preparation	3/11/2017	4/21/2017	5	30	
3	Grading	Grading	4/22/2017	8/4/2017	5	75	
4	Building Construction	Building Construction	8/5/2017	6/5/2020	5	740	
5	Paving	Paving	6/6/2020	8/21/2020	5	55	
6	Architectural Coating	Architectural Coating	8/22/2020	11/6/2020	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 1,016,550; Residential Outdoor: 338,850; Non-Residential Indoor: 1,411,206; Non-Residential Outdoor: 470,402  
(Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	757.00	208.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	151.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
<b>Total</b>	<b>4.0482</b>	<b>42.6971</b>	<b>33.8934</b>	<b>0.0399</b>		<b>2.1252</b>	<b>2.1252</b>		<b>1.9797</b>	<b>1.9797</b>		<b>4,036.4674</b>	<b>4,036.4674</b>	<b>1.1073</b>		<b>4,059.7211</b>

### 3.2 Demolition - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0507	0.0585	0.7068	1.8900e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1100e-003	0.0386		152.5274	152.5274	7.3200e-003			152.6812
<b>Total</b>	<b>0.0507</b>	<b>0.0585</b>	<b>0.7068</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2100e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1100e-003</b>	<b>0.0386</b>		<b>152.5274</b>	<b>152.5274</b>	<b>7.3200e-003</b>			<b>152.6812</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	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797	0.0000	4,036.4674	4,036.4674	1.1073			4,059.7211
<b>Total</b>	<b>4.0482</b>	<b>42.6971</b>	<b>33.8934</b>	<b>0.0399</b>		<b>2.1252</b>	<b>2.1252</b>		<b>1.9797</b>	<b>1.9797</b>	<b>0.0000</b>	<b>4,036.4674</b>	<b>4,036.4674</b>	<b>1.1073</b>			<b>4,059.7211</b>



### 3.2 Demolition - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0507	0.0585	0.7068	1.8900e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1100e-003	0.0386		152.5274	152.5274	7.3200e-003			152.6812
<b>Total</b>	<b>0.0507</b>	<b>0.0585</b>	<b>0.7068</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2100e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1100e-003</b>	<b>0.0386</b>		<b>152.5274</b>	<b>152.5274</b>	<b>7.3200e-003</b>			<b>152.6812</b>

### 3.3 Site Preparation - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.0859	4,003.0859	1.2265			4,028.8432
<b>Total</b>	<b>4.8382</b>	<b>51.7535</b>	<b>39.3970</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.7542</b>	<b>20.8205</b>	<b>9.9307</b>	<b>2.5339</b>	<b>12.4646</b>		<b>4,003.0859</b>	<b>4,003.0859</b>	<b>1.2265</b>			<b>4,028.8432</b>

### 3.3 Site Preparation - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0608	0.0702	0.8482	2.2600e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3400e-003	0.0464		183.0329	183.0329	8.7900e-003			183.2174
<b>Total</b>	<b>0.0608</b>	<b>0.0702</b>	<b>0.8482</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.4500e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3400e-003</b>	<b>0.0464</b>		<b>183.0329</b>	<b>183.0329</b>	<b>8.7900e-003</b>			<b>183.2174</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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000	
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339	0.0000	4,003.0859	4,003.0859	1.2265			4,028.8432
<b>Total</b>	<b>4.8382</b>	<b>51.7535</b>	<b>39.3970</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.7542</b>	<b>20.8205</b>	<b>9.9307</b>	<b>2.5339</b>	<b>12.4646</b>	<b>0.0000</b>	<b>4,003.0859</b>	<b>4,003.0859</b>	<b>1.2265</b>			<b>4,028.8432</b>

### 3.3 Site Preparation - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0608	0.0702	0.8482	2.2600e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3400e-003	0.0464		183.0329	183.0329	8.7900e-003			183.2174
<b>Total</b>	<b>0.0608</b>	<b>0.0702</b>	<b>0.8482</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.4500e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3400e-003</b>	<b>0.0464</b>		<b>183.0329</b>	<b>183.0329</b>	<b>8.7900e-003</b>			<b>183.2174</b>

### 3.4 Grading - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000				0.0000
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518		6,313.3690	6,313.3690	1.9344			6,353.9915
<b>Total</b>	<b>6.0991</b>	<b>69.5920</b>	<b>46.8050</b>	<b>0.0617</b>	<b>8.6733</b>	<b>3.3172</b>	<b>11.9905</b>	<b>3.5965</b>	<b>3.0518</b>	<b>6.6483</b>		<b>6,313.3690</b>	<b>6,313.3690</b>	<b>1.9344</b>			<b>6,353.9915</b>

### 3.4 Grading - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0675	0.0780	0.9424	2.5200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4900e-003	0.0515		203.3699	203.3699	9.7600e-003			203.5749
<b>Total</b>	<b>0.0675</b>	<b>0.0780</b>	<b>0.9424</b>	<b>2.5200e-003</b>	<b>0.1886</b>	<b>1.6100e-003</b>	<b>0.1902</b>	<b>0.0500</b>	<b>1.4900e-003</b>	<b>0.0515</b>		<b>203.3699</b>	<b>203.3699</b>	<b>9.7600e-003</b>			<b>203.5749</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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000	
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518	0.0000	6,313.3690	6,313.3690	1.9344			6,353.9915
<b>Total</b>	<b>6.0991</b>	<b>69.5920</b>	<b>46.8050</b>	<b>0.0617</b>	<b>8.6733</b>	<b>3.3172</b>	<b>11.9905</b>	<b>3.5965</b>	<b>3.0518</b>	<b>6.6483</b>	<b>0.0000</b>	<b>6,313.3690</b>	<b>6,313.3690</b>	<b>1.9344</b>			<b>6,353.9915</b>

### 3.4 Grading - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0675	0.0780	0.9424	2.5200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4900e-003	0.0515		203.3699	203.3699	9.7600e-003			203.5749
<b>Total</b>	<b>0.0675</b>	<b>0.0780</b>	<b>0.9424</b>	<b>2.5200e-003</b>	<b>0.1886</b>	<b>1.6100e-003</b>	<b>0.1902</b>	<b>0.0500</b>	<b>1.4900e-003</b>	<b>0.0515</b>		<b>203.3699</b>	<b>203.3699</b>	<b>9.7600e-003</b>			<b>203.5749</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>		<b>2,639.8053</b>	<b>2,639.8053</b>	<b>0.6497</b>			<b>2,653.4490</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	2.3882	17.7699	29.4182	0.0479	1.3740	0.2554	1.6293	0.3918	0.2347	0.6265		4,708.1004	4,708.1004	0.0355			4,708.8459
Worker	2.5562	2.9502	35.6701	0.0952	7.1387	0.0609	7.1996	1.8934	0.0562	1.9496		7,697.5498	7,697.5498	0.3695			7,705.3098
<b>Total</b>	<b>4.9444</b>	<b>20.7202</b>	<b>65.0883</b>	<b>0.1431</b>	<b>8.5127</b>	<b>0.3163</b>	<b>8.8290</b>	<b>2.2852</b>	<b>0.2909</b>	<b>2.5761</b>		<b>12,405.6502</b>	<b>12,405.6502</b>	<b>0.4050</b>			<b>12,414.1557</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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>	<b>0.0000</b>	<b>2,639.8053</b>	<b>2,639.8053</b>	<b>0.6497</b>			<b>2,653.4490</b>

### 3.5 Building Construction - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	2.3882	17.7699	29.4182	0.0479	1.3740	0.2554	1.6293	0.3918	0.2347	0.6265		4,708.1004	4,708.1004	0.0355			4,708.8459
Worker	2.5562	2.9502	35.6701	0.0952	7.1387	0.0609	7.1996	1.8934	0.0562	1.9496		7,697.5498	7,697.5498	0.3695			7,705.3098
<b>Total</b>	<b>4.9444</b>	<b>20.7202</b>	<b>65.0883</b>	<b>0.1431</b>	<b>8.5127</b>	<b>0.3163</b>	<b>8.8290</b>	<b>2.2852</b>	<b>0.2909</b>	<b>2.5761</b>		<b>12,405.6502</b>	<b>12,405.6502</b>	<b>0.4050</b>			<b>12,414.1557</b>

### 3.5 Building Construction - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387			2,623.3517
<b>Total</b>	<b>2.6687</b>	<b>23.2608</b>	<b>17.5327</b>	<b>0.0268</b>		<b>1.4943</b>	<b>1.4943</b>		<b>1.4048</b>	<b>1.4048</b>		<b>2,609.9390</b>	<b>2,609.9390</b>	<b>0.6387</b>			<b>2,623.3517</b>

### 3.5 Building Construction - 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	1.9037	16.0929	24.7424	0.0475	1.3732	0.2340	1.6072	0.3916	0.2152	0.6068		4,607.7219	4,607.7219	0.0347			4,608.4498
Worker	2.3395	2.6895	32.6154	0.0952	7.1387	0.0598	7.1985	1.8934	0.0553	1.9487		7,412.8973	7,412.8973	0.3443			7,420.1273
<b>Total</b>	<b>4.2432</b>	<b>18.7824</b>	<b>57.3577</b>	<b>0.1427</b>	<b>8.5119</b>	<b>0.2938</b>	<b>8.8057</b>	<b>2.2850</b>	<b>0.2705</b>	<b>2.5554</b>		<b>12,020.6192</b>	<b>12,020.6192</b>	<b>0.3790</b>			<b>12,028.5771</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387			2,623.3517
<b>Total</b>	<b>2.6687</b>	<b>23.2608</b>	<b>17.5327</b>	<b>0.0268</b>		<b>1.4943</b>	<b>1.4943</b>		<b>1.4048</b>	<b>1.4048</b>	<b>0.0000</b>	<b>2,609.9389</b>	<b>2,609.9389</b>	<b>0.6387</b>			<b>2,623.3517</b>



### 3.5 Building Construction - 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	1.9037	16.0929	24.7424	0.0475	1.3732	0.2340	1.6072	0.3916	0.2152	0.6068		4,607.7219	4,607.7219	0.0347			4,608.4498
Worker	2.3395	2.6895	32.6154	0.0952	7.1387	0.0598	7.1985	1.8934	0.0553	1.9487		7,412.8973	7,412.8973	0.3443			7,420.1273
<b>Total</b>	<b>4.2432</b>	<b>18.7824</b>	<b>57.3577</b>	<b>0.1427</b>	<b>8.5119</b>	<b>0.2938</b>	<b>8.8057</b>	<b>2.2850</b>	<b>0.2705</b>	<b>2.5554</b>		<b>12,020.6192</b>	<b>12,020.6192</b>	<b>0.3790</b>			<b>12,028.5771</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	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083		2,580.7618	2,580.7618	0.6279			2,593.9479
<b>Total</b>	<b>2.3516</b>	<b>20.9650</b>	<b>17.1204</b>	<b>0.0268</b>		<b>1.2850</b>	<b>1.2850</b>		<b>1.2083</b>	<b>1.2083</b>		<b>2,580.7618</b>	<b>2,580.7618</b>	<b>0.6279</b>			<b>2,593.9479</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	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	1.8291	14.7934	24.0457	0.0476	1.3739	0.2181	1.5920	0.3918	0.2005	0.5924		4,545.5708	4,545.5708	0.0340			4,546.2844
Worker	2.1576	2.4666	30.0026	0.0952	7.1387	0.0591	7.1978	1.8934	0.0548	1.9481		7,145.5890	7,145.5890	0.3229			7,152.3698
<b>Total</b>	<b>3.9867</b>	<b>17.2600</b>	<b>54.0482</b>	<b>0.1428</b>	<b>8.5127</b>	<b>0.2771</b>	<b>8.7898</b>	<b>2.2852</b>	<b>0.2553</b>	<b>2.5405</b>		<b>11,691.1598</b>	<b>11,691.1598</b>	<b>0.3569</b>			<b>11,698.6542</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083	0.0000	2,580.7618	2,580.7618	0.6279			2,593.9479
<b>Total</b>	<b>2.3516</b>	<b>20.9650</b>	<b>17.1204</b>	<b>0.0268</b>		<b>1.2850</b>	<b>1.2850</b>		<b>1.2083</b>	<b>1.2083</b>	<b>0.0000</b>	<b>2,580.7618</b>	<b>2,580.7618</b>	<b>0.6279</b>			<b>2,593.9479</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	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	1.8291	14.7934	24.0457	0.0476	1.3739	0.2181	1.5920	0.3918	0.2005	0.5924		4,545.5708	4,545.5708	0.0340			4,546.2844
Worker	2.1576	2.4666	30.0026	0.0952	7.1387	0.0591	7.1978	1.8934	0.0548	1.9481		7,145.5890	7,145.5890	0.3229			7,152.3698
<b>Total</b>	<b>3.9867</b>	<b>17.2600</b>	<b>54.0482</b>	<b>0.1428</b>	<b>8.5127</b>	<b>0.2771</b>	<b>8.7898</b>	<b>2.2852</b>	<b>0.2553</b>	<b>2.5405</b>		<b>11,691.1598</b>	<b>11,691.1598</b>	<b>0.3569</b>			<b>11,698.6542</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	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465		2,542.4799	2,542.4799	0.6194			2,555.4880
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>		<b>2,542.4799</b>	<b>2,542.4799</b>	<b>0.6194</b>			<b>2,555.4880</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	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	1.6587	12.7229	22.4355	0.0476	1.3743	0.1944	1.5687	0.3919	0.1788	0.5707		4,448.8612	4,448.8612	0.0330			4,449.5535
Worker	2.0238	2.2869	27.9443	0.0952	7.1387	0.0589	7.1977	1.8934	0.0546	1.9480		6,857.6243	6,857.6243	0.3059			6,864.0489
<b>Total</b>	<b>3.6825</b>	<b>15.0098</b>	<b>50.3798</b>	<b>0.1428</b>	<b>8.5130</b>	<b>0.2533</b>	<b>8.7663</b>	<b>2.2853</b>	<b>0.2335</b>	<b>2.5188</b>		<b>11,306.4855</b>	<b>11,306.4855</b>	<b>0.3389</b>			<b>11,313.6024</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465	0.0000	2,542.4799	2,542.4799	0.6194			2,555.4880
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>	<b>0.0000</b>	<b>2,542.4799</b>	<b>2,542.4799</b>	<b>0.6194</b>			<b>2,555.4880</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	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	1.6587	12.7229	22.4355	0.0476	1.3743	0.1944	1.5687	0.3919	0.1788	0.5707		4,448.861 2	4,448.861 2	0.0330			4,449.553 5
Worker	2.0238	2.2869	27.9443	0.0952	7.1387	0.0589	7.1977	1.8934	0.0546	1.9480		6,857.624 3	6,857.624 3	0.3059			6,864.048 9
<b>Total</b>	<b>3.6825</b>	<b>15.0098</b>	<b>50.3798</b>	<b>0.1428</b>	<b>8.5130</b>	<b>0.2533</b>	<b>8.7663</b>	<b>2.2853</b>	<b>0.2335</b>	<b>2.5188</b>		<b>11,306.48 55</b>	<b>11,306.48 55</b>	<b>0.3389</b>			<b>11,313.60 24</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	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799		2,160.757 1	2,160.757 1	0.6988			2,175.432 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.3301</b>	<b>13.7845</b>	<b>14.3523</b>	<b>0.0223</b>		<b>0.7390</b>	<b>0.7390</b>		<b>0.6799</b>	<b>0.6799</b>		<b>2,160.757 1</b>	<b>2,160.757 1</b>	<b>0.6988</b>			<b>2,175.432 6</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	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	0.0401	0.0453	0.5537	1.8900e-003	0.1415	1.1700e-003	0.1426	0.0375	1.0800e-003	0.0386		135.8842	135.8842	6.0600e-003			136.0115
<b>Total</b>	<b>0.0401</b>	<b>0.0453</b>	<b>0.5537</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.1700e-003</b>	<b>0.1426</b>	<b>0.0375</b>	<b>1.0800e-003</b>	<b>0.0386</b>		<b>135.8842</b>	<b>135.8842</b>	<b>6.0600e-003</b>			<b>136.0115</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	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799	0.0000	2,160.7571	2,160.7571	0.6988			2,175.4326
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.3301</b>	<b>13.7845</b>	<b>14.3523</b>	<b>0.0223</b>		<b>0.7390</b>	<b>0.7390</b>		<b>0.6799</b>	<b>0.6799</b>	<b>0.0000</b>	<b>2,160.7571</b>	<b>2,160.7571</b>	<b>0.6988</b>			<b>2,175.4326</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	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	0.0401	0.0453	0.5537	1.8900e-003	0.1415	1.1700e-003	0.1426	0.0375	1.0800e-003	0.0386		135.8842	135.8842	6.0600e-003			136.0115
<b>Total</b>	<b>0.0401</b>	<b>0.0453</b>	<b>0.5537</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.1700e-003</b>	<b>0.1426</b>	<b>0.0375</b>	<b>1.0800e-003</b>	<b>0.0386</b>		<b>135.8842</b>	<b>135.8842</b>	<b>6.0600e-003</b>			<b>136.0115</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	306.8904					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218			281.9057
<b>Total</b>	<b>307.1326</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>			<b>281.9057</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	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	0.4037	0.4562	5.5741	0.0190	1.4240	0.0118	1.4357	0.3777	0.0109	0.3886		1,367.9013	1,367.9013	0.0610			1,369.1828
<b>Total</b>	<b>0.4037</b>	<b>0.4562</b>	<b>5.5741</b>	<b>0.0190</b>	<b>1.4240</b>	<b>0.0118</b>	<b>1.4357</b>	<b>0.3777</b>	<b>0.0109</b>	<b>0.3886</b>		<b>1,367.9013</b>	<b>1,367.9013</b>	<b>0.0610</b>			<b>1,369.1828</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						
Archit. Coating	306.8904					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218			281.9057
<b>Total</b>	<b>307.1326</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>			<b>281.9057</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	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	0.4037	0.4562	5.5741	0.0190	1.4240	0.0118	1.4357	0.3777	0.0109	0.3886		1,367.9013	1,367.9013	0.0610			1,369.1828
<b>Total</b>	<b>0.4037</b>	<b>0.4562</b>	<b>5.5741</b>	<b>0.0190</b>	<b>1.4240</b>	<b>0.0118</b>	<b>1.4357</b>	<b>0.3777</b>	<b>0.0109</b>	<b>0.3886</b>		<b>1,367.9013</b>	<b>1,367.9013</b>	<b>0.0610</b>			<b>1,369.1828</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	33.0857	70.8284	330.4472	0.4399	29.8806	1.4415	31.3221	8.0749	1.3220	9.3969		43,621.5978	43,621.5978	2.7189			43,678.6952
Unmitigated	33.0857	70.8284	330.4472	0.4399	29.8806	1.4415	31.3221	8.0749	1.3220	9.3969		43,621.5978	43,621.5978	2.7189			43,678.6952

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Junior College (2Yr)	5,456.64	1,091.33	0.00	10,294,023	10,294,023
<b>Total</b>	<b>5,456.64</b>	<b>1,091.33</b>	<b>0.00</b>	<b>10,294,023</b>	<b>10,294,023</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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.618828	0.059301	0.151819	0.086327	0.028684	0.003629	0.023451	0.002900	0.003167	0.011393	0.009452	0.000564	0.000484

**5.0 Energy Detail**

**4.4 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.8591	7.7526	6.1415	0.0469		0.5935	0.5935		0.5935	0.5935		9,371.6058	9,371.6058	0.1796	0.1718	9,428.6399
NaturalGas Unmitigated	0.8591	7.7526	6.1415	0.0469		0.5935	0.5935		0.5935	0.5935		9,371.6058	9,371.6058	0.1796	0.1718	9,428.6399

### 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					
Junior College (2Yr)	69954.6	0.7544	6.8583	5.7610	0.0412		0.5212	0.5212		0.5212	0.5212		8,229.9502	8,229.9502	0.1577	0.1509	8,280.0363
Apartments Mid Rise	9704.07	0.1047	0.8943	0.3806	5.7100e-003		0.0723	0.0723		0.0723	0.0723		1,141.6556	1,141.6556	0.0219	0.0209	1,148.6035
<b>Total</b>		<b>0.8591</b>	<b>7.7526</b>	<b>6.1415</b>	<b>0.0469</b>		<b>0.5935</b>	<b>0.5935</b>		<b>0.5935</b>	<b>0.5935</b>		<b>9,371.6058</b>	<b>9,371.6058</b>	<b>0.1796</b>	<b>0.1718</b>	<b>9,428.6399</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					
Apartments Mid Rise	9.70407	0.1047	0.8943	0.3806	5.7100e-003		0.0723	0.0723		0.0723	0.0723		1,141.6556	1,141.6556	0.0219	0.0209	1,148.6035
Junior College (2Yr)	69.9546	0.7544	6.8583	5.7610	0.0412		0.5212	0.5212		0.5212	0.5212		8,229.9502	8,229.9502	0.1577	0.1509	8,280.0363
<b>Total</b>		<b>0.8591</b>	<b>7.7526</b>	<b>6.1415</b>	<b>0.0469</b>		<b>0.5935</b>	<b>0.5935</b>		<b>0.5935</b>	<b>0.5935</b>		<b>9,371.6058</b>	<b>9,371.6058</b>	<b>0.1796</b>	<b>0.1718</b>	<b>9,428.6399</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	42.7450	0.5294	44.1822	2.1900e-003		0.2184	0.2184		0.2184	0.2184	0.0000	74.7792	74.7792	0.0916	0.0000	76.7025
Unmitigated	42.7450	0.5294	44.1822	2.1900e-003		0.2184	0.2184		0.2184	0.2184	0.0000	74.7792	74.7792	0.0916	0.0000	76.7025

## 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	10.2764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	30.8760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5926	0.5294	44.1822	2.1900e-003		0.2184	0.2184		0.2184	0.2184		74.7792	74.7792	0.0916		76.7025
<b>Total</b>	<b>42.7450</b>	<b>0.5294</b>	<b>44.1822</b>	<b>2.1900e-003</b>		<b>0.2184</b>	<b>0.2184</b>		<b>0.2184</b>	<b>0.2184</b>	<b>0.0000</b>	<b>74.7792</b>	<b>74.7792</b>	<b>0.0916</b>	<b>0.0000</b>	<b>76.7025</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	lb/day										lb/day					
Architectural Coating	10.2764					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	30.8760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5926	0.5294	44.1822	2.1900e-003		0.2184	0.2184		0.2184	0.2184		74.7792	74.7792	0.0916		76.7025
<b>Total</b>	<b>42.7450</b>	<b>0.5294</b>	<b>44.1822</b>	<b>2.1900e-003</b>		<b>0.2184</b>	<b>0.2184</b>		<b>0.2184</b>	<b>0.2184</b>	<b>0.0000</b>	<b>74.7792</b>	<b>74.7792</b>	<b>0.0916</b>	<b>0.0000</b>	<b>76.7025</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
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## 10.0 Vegetation

**7. CalEEMod Cumulative Year 2010 Outputs– Annual (tons per year)**

## AAU Cumulative Year 2010 San Francisco County, Annual

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	940.80	1000sqft	21.60	940,804.00	0
Apartments Mid Rise	502.00	Dwelling Unit	13.21	502,000.00	1053

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2010
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Total dwelling units and square footage according to information provided in in Table A-1 of the ESTM

Construction Phase - Only operational emissions are used. Construction emissions from this CalEEMod run were not used in the construction AQ analysis.

Architectural Coating -

Vehicle Trips - Vehicle trips are based on project specific traffic study. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Woodstoves - Assumed no fireplaces or woodstoves.

Energy Use - Adjust for 2013 Title 24 Energy Intensity



Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	7,191.67	5,393.75
tblEnergyUse	T24NG	35.21	26.40
tblFireplaces	NumberGas	276.10	0.00
tblFireplaces	NumberWood	70.28	0.00
tblLandUse	LandUseSquareFeet	940,800.00	940,804.00
tblLandUse	Population	1,436.00	1,053.00
tblProjectCharacteristics	OperationalYear	2014	2010
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	11.23	1.16
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	27.49	5.80
tblWoodstoves	NumberCatalytic	2.51	0.00
tblWoodstoves	NumberNoncatalytic	2.51	0.00

## 2.0 Emissions Summary

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**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.8422	6.9947	7.8864	0.0127	1.0392	0.3291	1.3684	0.4031	0.3052	0.7083	0.0000	1,067.689 5	1,067.689 5	0.1585	0.0000	1,071.017 7
2018	0.9192	5.6242	10.4439	0.0214	1.0696	0.2335	1.3030	0.2881	0.2188	0.5068	0.0000	1,679.797 0	1,679.797 0	0.1205	0.0000	1,682.328 1
2019	0.8428	5.1144	9.9452	0.0214	1.0697	0.2040	1.2737	0.2881	0.1911	0.4792	0.0000	1,639.145 2	1,639.145 2	0.1166	0.0000	1,641.594 6
2020	8.8268	2.4160	4.6851	0.0105	0.5045	0.1010	0.6055	0.1358	0.0944	0.2302	0.0000	785.1210	785.1210	0.0688	0.0000	786.5657
<b>Total</b>	<b>11.4309</b>	<b>20.1493</b>	<b>32.9607</b>	<b>0.0660</b>	<b>3.6830</b>	<b>0.8676</b>	<b>4.5505</b>	<b>1.1150</b>	<b>0.8095</b>	<b>1.9245</b>	<b>0.0000</b>	<b>5,171.752 8</b>	<b>5,171.752 8</b>	<b>0.4644</b>	<b>0.0000</b>	<b>5,181.506 0</b>



**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.6537	0.0476	3.9764	2.0000e-004		0.0197	0.0197		0.0197	0.0197	0.0000	6.1055	6.1055	7.4800e-003	0.0000	6.2625
Energy	0.1568	1.4149	1.1208	8.5500e-003		0.1083	0.1083		0.1083	0.1083	0.0000	4,888.5413	4,888.5413	0.1806	0.0597	4,910.8302
Mobile	4.4687	10.3254	45.8361	0.0567	3.8907	0.1954	4.0862	1.0551	0.1792	1.2344	0.0000	5,095.2023	5,095.2023	0.3331	0.0000	5,102.1981
Waste						0.0000	0.0000		0.0000	0.0000	295.1407	0.0000	295.1407	17.4423	0.0000	661.4294
Water						0.0000	0.0000		0.0000	0.0000	25.0163	218.6075	243.6238	2.5793	0.0627	317.2306
<b>Total</b>	<b>12.2791</b>	<b>11.7879</b>	<b>50.9333</b>	<b>0.0654</b>	<b>3.8907</b>	<b>0.3234</b>	<b>4.2141</b>	<b>1.0551</b>	<b>0.3072</b>	<b>1.3623</b>	<b>320.1571</b>	<b>10,208.4566</b>	<b>10,528.6136</b>	<b>20.5429</b>	<b>0.1224</b>	<b>10,997.9509</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	7.6537	0.0476	3.9764	2.0000e-004		0.0197	0.0197		0.0197	0.0197	0.0000	6.1055	6.1055	7.4800e-003	0.0000	6.2625
Energy	0.1568	1.4149	1.1208	8.5500e-003		0.1083	0.1083		0.1083	0.1083	0.0000	4,888.5413	4,888.5413	0.1806	0.0597	4,910.8302
Mobile	4.4687	10.3254	45.8361	0.0567	3.8907	0.1954	4.0862	1.0551	0.1792	1.2344	0.0000	5,095.2023	5,095.2023	0.3331	0.0000	5,102.1981
Waste						0.0000	0.0000		0.0000	0.0000	295.1407	0.0000	295.1407	17.4423	0.0000	661.4294
Water						0.0000	0.0000		0.0000	0.0000	25.0163	218.6075	243.6238	2.5788	0.0626	317.1907
<b>Total</b>	<b>12.2791</b>	<b>11.7879</b>	<b>50.9333</b>	<b>0.0654</b>	<b>3.8907</b>	<b>0.3234</b>	<b>4.2141</b>	<b>1.0551</b>	<b>0.3072</b>	<b>1.3623</b>	<b>320.1571</b>	<b>10,208.4566</b>	<b>10,528.6136</b>	<b>20.5424</b>	<b>0.1223</b>	<b>10,997.9110</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	0.07	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	1/1/2017	3/10/2017	5	50	
2	Site Preparation	Site Preparation	3/11/2017	4/21/2017	5	30	
3	Grading	Grading	4/22/2017	8/4/2017	5	75	
4	Building Construction	Building Construction	8/5/2017	6/5/2020	5	740	
5	Paving	Paving	6/6/2020	8/21/2020	5	55	
6	Architectural Coating	Architectural Coating	8/22/2020	11/6/2020	5	55	

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

**Acres of Grading (Grading Phase): 187.5**

**Acres of Paving: 0**

**Residential Indoor: 1,016,550; Residential Outdoor: 338,850; Non-Residential Indoor: 1,411,206; Non-Residential Outdoor: 470,402 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	757.00	208.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	151.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1012	1.0674	0.8473	1.0000e-003		0.0531	0.0531		0.0495	0.0495	0.0000	91.5455	91.5455	0.0251	0.0000	92.0729
<b>Total</b>	<b>0.1012</b>	<b>1.0674</b>	<b>0.8473</b>	<b>1.0000e-003</b>		<b>0.0531</b>	<b>0.0531</b>		<b>0.0495</b>	<b>0.0495</b>	<b>0.0000</b>	<b>91.5455</b>	<b>91.5455</b>	<b>0.0251</b>	<b>0.0000</b>	<b>92.0729</b>



### 3.2 Demolition - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	1.2200e-003	1.6800e-003	0.0168	4.0000e-005	3.4000e-003	3.0000e-005	3.4300e-003	9.0000e-004	3.0000e-005	9.3000e-004	0.0000	3.2606	3.2606	1.7000e-004	0.0000	3.2641	
<b>Total</b>	<b>1.2200e-003</b>	<b>1.6800e-003</b>	<b>0.0168</b>	<b>4.0000e-005</b>	<b>3.4000e-003</b>	<b>3.0000e-005</b>	<b>3.4300e-003</b>	<b>9.0000e-004</b>	<b>3.0000e-005</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>3.2606</b>	<b>3.2606</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>3.2641</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	0.1012	1.0674	0.8473	1.0000e-003		0.0531	0.0531		0.0495	0.0495	0.0000	91.5454	91.5454	0.0251	0.0000	92.0728
<b>Total</b>	<b>0.1012</b>	<b>1.0674</b>	<b>0.8473</b>	<b>1.0000e-003</b>		<b>0.0531</b>	<b>0.0531</b>		<b>0.0495</b>	<b>0.0495</b>	<b>0.0000</b>	<b>91.5454</b>	<b>91.5454</b>	<b>0.0251</b>	<b>0.0000</b>	<b>92.0728</b>

### 3.2 Demolition - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.2200e-003	1.6800e-003	0.0168	4.0000e-005	3.4000e-003	3.0000e-005	3.4300e-003	9.0000e-004	3.0000e-005	9.3000e-004	0.0000	3.2606	3.2606	1.7000e-004	0.0000	3.2641
<b>Total</b>	<b>1.2200e-003</b>	<b>1.6800e-003</b>	<b>0.0168</b>	<b>4.0000e-005</b>	<b>3.4000e-003</b>	<b>3.0000e-005</b>	<b>3.4300e-003</b>	<b>9.0000e-004</b>	<b>3.0000e-005</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>3.2606</b>	<b>3.2606</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>3.2641</b>

### 3.3 Site Preparation - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0726	0.7763	0.5910	5.9000e-004		0.0413	0.0413		0.0380	0.0380	0.0000	54.4731	54.4731	0.0167	0.0000	54.8236
<b>Total</b>	<b>0.0726</b>	<b>0.7763</b>	<b>0.5910</b>	<b>5.9000e-004</b>	<b>0.2710</b>	<b>0.0413</b>	<b>0.3123</b>	<b>0.1490</b>	<b>0.0380</b>	<b>0.1870</b>	<b>0.0000</b>	<b>54.4731</b>	<b>54.4731</b>	<b>0.0167</b>	<b>0.0000</b>	<b>54.8236</b>

### 3.3 Site Preparation - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	8.8000e-004	1.2100e-003	0.0121	3.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3476	2.3476	1.2000e-004	0.0000	2.3501
<b>Total</b>	<b>8.8000e-004</b>	<b>1.2100e-003</b>	<b>0.0121</b>	<b>3.0000e-005</b>	<b>2.4500e-003</b>	<b>2.0000e-005</b>	<b>2.4700e-003</b>	<b>6.5000e-004</b>	<b>2.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.3476</b>	<b>2.3476</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.3501</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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0726	0.7763	0.5910	5.9000e-004		0.0413	0.0413		0.0380	0.0380	0.0000	54.4730	54.4730	0.0167	0.0000	54.8235
<b>Total</b>	<b>0.0726</b>	<b>0.7763</b>	<b>0.5910</b>	<b>5.9000e-004</b>	<b>0.2710</b>	<b>0.0413</b>	<b>0.3123</b>	<b>0.1490</b>	<b>0.0380</b>	<b>0.1870</b>	<b>0.0000</b>	<b>54.4730</b>	<b>54.4730</b>	<b>0.0167</b>	<b>0.0000</b>	<b>54.8235</b>

### 3.3 Site Preparation - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	8.8000e-004	1.2100e-003	0.0121	3.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3476	2.3476	1.2000e-004	0.0000	2.3501
<b>Total</b>	<b>8.8000e-004</b>	<b>1.2100e-003</b>	<b>0.0121</b>	<b>3.0000e-005</b>	<b>2.4500e-003</b>	<b>2.0000e-005</b>	<b>2.4700e-003</b>	<b>6.5000e-004</b>	<b>2.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.3476</b>	<b>2.3476</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.3501</b>

### 3.4 Grading - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2287	2.6097	1.7552	2.3100e-003		0.1244	0.1244		0.1144	0.1144	0.0000	214.7772	214.7772	0.0658	0.0000	216.1592
<b>Total</b>	<b>0.2287</b>	<b>2.6097</b>	<b>1.7552</b>	<b>2.3100e-003</b>	<b>0.3253</b>	<b>0.1244</b>	<b>0.4496</b>	<b>0.1349</b>	<b>0.1144</b>	<b>0.2493</b>	<b>0.0000</b>	<b>214.7772</b>	<b>214.7772</b>	<b>0.0658</b>	<b>0.0000</b>	<b>216.1592</b>

### 3.4 Grading - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.4400e-003	3.3600e-003	0.0336	9.0000e-005	6.8000e-003	6.0000e-005	6.8600e-003	1.8100e-003	6.0000e-005	1.8700e-003	0.0000	6.5211	6.5211	3.3000e-004	0.0000	6.5281
<b>Total</b>	<b>2.4400e-003</b>	<b>3.3600e-003</b>	<b>0.0336</b>	<b>9.0000e-005</b>	<b>6.8000e-003</b>	<b>6.0000e-005</b>	<b>6.8600e-003</b>	<b>1.8100e-003</b>	<b>6.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>6.5211</b>	<b>6.5211</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>6.5281</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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2287	2.6097	1.7552	2.3100e-003		0.1244	0.1244		0.1144	0.1144	0.0000	214.7770	214.7770	0.0658	0.0000	216.1589
<b>Total</b>	<b>0.2287</b>	<b>2.6097</b>	<b>1.7552</b>	<b>2.3100e-003</b>	<b>0.3253</b>	<b>0.1244</b>	<b>0.4496</b>	<b>0.1349</b>	<b>0.1144</b>	<b>0.2493</b>	<b>0.0000</b>	<b>214.7770</b>	<b>214.7770</b>	<b>0.0658</b>	<b>0.0000</b>	<b>216.1589</b>

### 3.4 Grading - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.4400e-003	3.3600e-003	0.0336	9.0000e-005	6.8000e-003	6.0000e-005	6.8600e-003	1.8100e-003	6.0000e-005	1.8700e-003	0.0000	6.5211	6.5211	3.3000e-004	0.0000	6.5281
<b>Total</b>	<b>2.4400e-003</b>	<b>3.3600e-003</b>	<b>0.0336</b>	<b>9.0000e-005</b>	<b>6.8000e-003</b>	<b>6.0000e-005</b>	<b>6.8600e-003</b>	<b>1.8100e-003</b>	<b>6.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>6.5211</b>	<b>6.5211</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>6.5281</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1629	1.3863	0.9518	1.4100e-003		0.0935	0.0935		0.0878	0.0878	0.0000	125.7265	125.7265	0.0309	0.0000	126.3763
<b>Total</b>	<b>0.1629</b>	<b>1.3863</b>	<b>0.9518</b>	<b>1.4100e-003</b>		<b>0.0935</b>	<b>0.0935</b>		<b>0.0878</b>	<b>0.0878</b>	<b>0.0000</b>	<b>125.7265</b>	<b>125.7265</b>	<b>0.0309</b>	<b>0.0000</b>	<b>126.3763</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.1428	0.9710	1.8966	2.5100e-003	0.0698	0.0135	0.0833	0.0200	0.0124	0.0324	0.0000	223.4832	223.4832	1.7100e-003	0.0000	0.0000	223.5191
Worker	0.1295	0.1778	1.7820	4.7100e-003	0.3605	3.2000e-003	0.3637	0.0959	2.9500e-003	0.0989	0.0000	345.5547	345.5547	0.0176	0.0000	0.0000	345.9243
<b>Total</b>	<b>0.2723</b>	<b>1.1488</b>	<b>3.6786</b>	<b>7.2200e-003</b>	<b>0.4303</b>	<b>0.0167</b>	<b>0.4470</b>	<b>0.1159</b>	<b>0.0153</b>	<b>0.1312</b>	<b>0.0000</b>	<b>569.0379</b>	<b>569.0379</b>	<b>0.0193</b>	<b>0.0000</b>	<b>0.0000</b>	<b>569.4434</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	0.1629	1.3863	0.9518	1.4100e-003		0.0935	0.0935		0.0878	0.0878	0.0000	125.7264	125.7264	0.0309	0.0000	0.0000	126.3762
<b>Total</b>	<b>0.1629</b>	<b>1.3863</b>	<b>0.9518</b>	<b>1.4100e-003</b>		<b>0.0935</b>	<b>0.0935</b>		<b>0.0878</b>	<b>0.0878</b>	<b>0.0000</b>	<b>125.7264</b>	<b>125.7264</b>	<b>0.0309</b>	<b>0.0000</b>	<b>0.0000</b>	<b>126.3762</b>

**3.5 Building Construction - 2017****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.1428	0.9710	1.8966	2.5100e-003	0.0698	0.0135	0.0833	0.0200	0.0124	0.0324	0.0000	223.4832	223.4832	1.7100e-003	0.0000	223.5191
Worker	0.1295	0.1778	1.7820	4.7100e-003	0.3605	3.2000e-003	0.3637	0.0959	2.9500e-003	0.0989	0.0000	345.5547	345.5547	0.0176	0.0000	345.9243
<b>Total</b>	<b>0.2723</b>	<b>1.1488</b>	<b>3.6786</b>	<b>7.2200e-003</b>	<b>0.4303</b>	<b>0.0167</b>	<b>0.4470</b>	<b>0.1159</b>	<b>0.0153</b>	<b>0.1312</b>	<b>0.0000</b>	<b>569.0379</b>	<b>569.0379</b>	<b>0.0193</b>	<b>0.0000</b>	<b>569.4434</b>

**3.5 Building Construction - 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	0.3483	3.0355	2.2880	3.5000e-003		0.1950	0.1950		0.1833	0.1833	0.0000	308.9844	308.9844	0.0756	0.0000	310.5723
<b>Total</b>	<b>0.3483</b>	<b>3.0355</b>	<b>2.2880</b>	<b>3.5000e-003</b>		<b>0.1950</b>	<b>0.1950</b>		<b>0.1833</b>	<b>0.1833</b>	<b>0.0000</b>	<b>308.9844</b>	<b>308.9844</b>	<b>0.0756</b>	<b>0.0000</b>	<b>310.5723</b>



### 3.5 Building Construction - 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	0.2774	2.1857	4.1216	6.1900e-003	0.1735	0.0307	0.2041	0.0497	0.0282	0.0779	0.0000	543.6593	543.6593	4.1500e-003	0.0000	543.7465
Worker	0.2935	0.4029	4.0343	0.0117	0.8961	7.8000e-003	0.9039	0.2384	7.2200e-003	0.2456	0.0000	827.1533	827.1533	0.0408	0.0000	828.0092
<b>Total</b>	<b>0.5709</b>	<b>2.5886</b>	<b>8.1559</b>	<b>0.0179</b>	<b>1.0696</b>	<b>0.0385</b>	<b>1.1080</b>	<b>0.2881</b>	<b>0.0354</b>	<b>0.3235</b>	<b>0.0000</b>	<b>1,370.8126</b>	<b>1,370.8126</b>	<b>0.0449</b>	<b>0.0000</b>	<b>1,371.7558</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	0.3483	3.0355	2.2880	3.5000e-003		0.1950	0.1950		0.1833	0.1833	0.0000	308.9841	308.9841	0.0756	0.0000	310.5720
<b>Total</b>	<b>0.3483</b>	<b>3.0355</b>	<b>2.2880</b>	<b>3.5000e-003</b>		<b>0.1950</b>	<b>0.1950</b>		<b>0.1833</b>	<b>0.1833</b>	<b>0.0000</b>	<b>308.9841</b>	<b>308.9841</b>	<b>0.0756</b>	<b>0.0000</b>	<b>310.5720</b>

### 3.5 Building Construction - 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	0.2774	2.1857	4.1216	6.1900e-003	0.1735	0.0307	0.2041	0.0497	0.0282	0.0779	0.0000	543.6593	543.6593	4.1500e-003	0.0000	543.7465
Worker	0.2935	0.4029	4.0343	0.0117	0.8961	7.8000e-003	0.9039	0.2384	7.2200e-003	0.2456	0.0000	827.1533	827.1533	0.0408	0.0000	828.0092
<b>Total</b>	<b>0.5709</b>	<b>2.5886</b>	<b>8.1559</b>	<b>0.0179</b>	<b>1.0696</b>	<b>0.0385</b>	<b>1.1080</b>	<b>0.2881</b>	<b>0.0354</b>	<b>0.3235</b>	<b>0.0000</b>	<b>1,370.8126</b>	<b>1,370.8126</b>	<b>0.0449</b>	<b>0.0000</b>	<b>1,371.7558</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	0.3069	2.7359	2.2342	3.5000e-003		0.1677	0.1677		0.1577	0.1577	0.0000	305.5302	305.5302	0.0743	0.0000	307.0913
<b>Total</b>	<b>0.3069</b>	<b>2.7359</b>	<b>2.2342</b>	<b>3.5000e-003</b>		<b>0.1677</b>	<b>0.1677</b>		<b>0.1577</b>	<b>0.1577</b>	<b>0.0000</b>	<b>305.5302</b>	<b>305.5302</b>	<b>0.0743</b>	<b>0.0000</b>	<b>307.0913</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
Vendor	0.2661	2.0090	4.0139	6.2100e-003	0.1736	0.0286	0.2021	0.0497	0.0263	0.0760	0.0000	536.3290	536.3290	4.0700e-003	0.0000	536.4146
Worker	0.2698	0.3695	3.6971	0.0117	0.8961	7.7100e-003	0.9038	0.2384	7.1500e-003	0.2455	0.0000	797.2860	797.2860	0.0382	0.0000	798.0887
<b>Total</b>	<b>0.5359</b>	<b>2.3785</b>	<b>7.7110</b>	<b>0.0179</b>	<b>1.0697</b>	<b>0.0363</b>	<b>1.1060</b>	<b>0.2881</b>	<b>0.0334</b>	<b>0.3215</b>	<b>0.0000</b>	<b>1,333.6150</b>	<b>1,333.6150</b>	<b>0.0423</b>	<b>0.0000</b>	<b>1,334.5033</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	0.3069	2.7359	2.2342	3.5000e-003		0.1677	0.1677		0.1577	0.1577	0.0000	305.5299	305.5299	0.0743	0.0000	307.0909
<b>Total</b>	<b>0.3069</b>	<b>2.7359</b>	<b>2.2342</b>	<b>3.5000e-003</b>		<b>0.1677</b>	<b>0.1677</b>		<b>0.1577</b>	<b>0.1577</b>	<b>0.0000</b>	<b>305.5299</b>	<b>305.5299</b>	<b>0.0743</b>	<b>0.0000</b>	<b>307.0909</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
Vendor	0.2661	2.0090	4.0139	6.2100e-003	0.1736	0.0286	0.2021	0.0497	0.0263	0.0760	0.0000	536.3290	536.3290	4.0700e-003	0.0000	536.4146
Worker	0.2698	0.3695	3.6971	0.0117	0.8961	7.7100e-003	0.9038	0.2384	7.1500e-003	0.2455	0.0000	797.2860	797.2860	0.0382	0.0000	798.0887
<b>Total</b>	<b>0.5359</b>	<b>2.3785</b>	<b>7.7110</b>	<b>0.0179</b>	<b>1.0697</b>	<b>0.0363</b>	<b>1.1060</b>	<b>0.2881</b>	<b>0.0334</b>	<b>0.3215</b>	<b>0.0000</b>	<b>1,333.6150</b>	<b>1,333.6150</b>	<b>0.0423</b>	<b>0.0000</b>	<b>1,334.5033</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	0.1193	1.0782	0.9497	1.5100e-003		0.0629	0.0629		0.0591	0.0591	0.0000	130.3172	130.3172	0.0318	0.0000	130.9839
<b>Total</b>	<b>0.1193</b>	<b>1.0782</b>	<b>0.9497</b>	<b>1.5100e-003</b>		<b>0.0629</b>	<b>0.0629</b>		<b>0.0591</b>	<b>0.0591</b>	<b>0.0000</b>	<b>130.3172</b>	<b>130.3172</b>	<b>0.0318</b>	<b>0.0000</b>	<b>130.9839</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
Vendor	0.1037	0.7482	1.6443	2.6900e-003	0.0752	0.0110	0.0862	0.0215	0.0101	0.0317	0.0000	227.2623	227.2623	1.7100e-003	0.0000	227.2983
Worker	0.1094	0.1483	1.4873	5.0700e-003	0.3880	3.3300e-003	0.3913	0.1032	3.0900e-003	0.1063	0.0000	331.2584	331.2584	0.0157	0.0000	331.5877
<b>Total</b>	<b>0.2131</b>	<b>0.8965</b>	<b>3.1316</b>	<b>7.7600e-003</b>	<b>0.4631</b>	<b>0.0144</b>	<b>0.4775</b>	<b>0.1247</b>	<b>0.0132</b>	<b>0.1380</b>	<b>0.0000</b>	<b>558.5207</b>	<b>558.5207</b>	<b>0.0174</b>	<b>0.0000</b>	<b>558.8860</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	0.1193	1.0782	0.9497	1.5100e-003		0.0629	0.0629		0.0591	0.0591	0.0000	130.3170	130.3170	0.0318	0.0000	130.9838
<b>Total</b>	<b>0.1193</b>	<b>1.0782</b>	<b>0.9497</b>	<b>1.5100e-003</b>		<b>0.0629</b>	<b>0.0629</b>		<b>0.0591</b>	<b>0.0591</b>	<b>0.0000</b>	<b>130.3170</b>	<b>130.3170</b>	<b>0.0318</b>	<b>0.0000</b>	<b>130.9838</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	0.1037	0.7482	1.6443	2.6900e-003	0.0752	0.0110	0.0862	0.0215	0.0101	0.0317	0.0000	227.2623	227.2623	1.7100e-003	0.0000	227.2983
Worker	0.1094	0.1483	1.4873	5.0700e-003	0.3880	3.3300e-003	0.3913	0.1032	3.0900e-003	0.1063	0.0000	331.2584	331.2584	0.0157	0.0000	331.5877
<b>Total</b>	<b>0.2131</b>	<b>0.8965</b>	<b>3.1316</b>	<b>7.7600e-003</b>	<b>0.4631</b>	<b>0.0144</b>	<b>0.4775</b>	<b>0.1247</b>	<b>0.0132</b>	<b>0.1380</b>	<b>0.0000</b>	<b>558.5207</b>	<b>558.5207</b>	<b>0.0174</b>	<b>0.0000</b>	<b>558.8860</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	0.0366	0.3791	0.3947	6.1000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	53.9057	53.9057	0.0174	0.0000	54.2718
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0366</b>	<b>0.3791</b>	<b>0.3947</b>	<b>6.1000e-004</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0187</b>	<b>0.0187</b>	<b>0.0000</b>	<b>53.9057</b>	<b>53.9057</b>	<b>0.0174</b>	<b>0.0000</b>	<b>54.2718</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	1.0600e-003	1.4300e-003	0.0143	5.0000e-005	3.7400e-003	3.0000e-005	3.7700e-003	1.0000e-003	3.0000e-005	1.0300e-003	0.0000	3.1948	3.1948	1.5000e-004	0.0000	3.1980
<b>Total</b>	<b>1.0600e-003</b>	<b>1.4300e-003</b>	<b>0.0143</b>	<b>5.0000e-005</b>	<b>3.7400e-003</b>	<b>3.0000e-005</b>	<b>3.7700e-003</b>	<b>1.0000e-003</b>	<b>3.0000e-005</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.1948</b>	<b>3.1948</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>3.1980</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	0.0366	0.3791	0.3947	6.1000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	53.9056	53.9056	0.0174	0.0000	54.2717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0366</b>	<b>0.3791</b>	<b>0.3947</b>	<b>6.1000e-004</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0187</b>	<b>0.0187</b>	<b>0.0000</b>	<b>53.9056</b>	<b>53.9056</b>	<b>0.0174</b>	<b>0.0000</b>	<b>54.2717</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
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	1.0600e-003	1.4300e-003	0.0143	5.0000e-005	3.7400e-003	3.0000e-005	3.7700e-003	1.0000e-003	3.0000e-005	1.0300e-003	0.0000	3.1948	3.1948	1.5000e-004	0.0000	3.1980
<b>Total</b>	<b>1.0600e-003</b>	<b>1.4300e-003</b>	<b>0.0143</b>	<b>5.0000e-005</b>	<b>3.7400e-003</b>	<b>3.0000e-005</b>	<b>3.7700e-003</b>	<b>1.0000e-003</b>	<b>3.0000e-005</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.1948</b>	<b>3.1948</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>3.1980</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	8.4395					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6600e-003	0.0463	0.0504	8.0000e-005		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	7.0215	7.0215	5.4000e-004	0.0000	7.0329
<b>Total</b>	<b>8.4462</b>	<b>0.0463</b>	<b>0.0504</b>	<b>8.0000e-005</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>	<b>0.0000</b>	<b>7.0215</b>	<b>7.0215</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>7.0329</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	0.0106	0.0144	0.1444	4.9000e-004	0.0377	3.2000e-004	0.0380	0.0100	3.0000e-004	0.0103	0.0000	32.1612	32.1612	1.5200e-003	0.0000	32.1932
<b>Total</b>	<b>0.0106</b>	<b>0.0144</b>	<b>0.1444</b>	<b>4.9000e-004</b>	<b>0.0377</b>	<b>3.2000e-004</b>	<b>0.0380</b>	<b>0.0100</b>	<b>3.0000e-004</b>	<b>0.0103</b>	<b>0.0000</b>	<b>32.1612</b>	<b>32.1612</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>32.1932</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	8.4395					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6600e-003	0.0463	0.0504	8.0000e-005		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	7.0214	7.0214	5.4000e-004	0.0000	7.0329
<b>Total</b>	<b>8.4462</b>	<b>0.0463</b>	<b>0.0504</b>	<b>8.0000e-005</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>	<b>0.0000</b>	<b>7.0214</b>	<b>7.0214</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>7.0329</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	0.0106	0.0144	0.1444	4.9000e-004	0.0377	3.2000e-004	0.0380	0.0100	3.0000e-004	0.0103	0.0000	32.1612	32.1612	1.5200e-003	0.0000	32.1932
<b>Total</b>	<b>0.0106</b>	<b>0.0144</b>	<b>0.1444</b>	<b>4.9000e-004</b>	<b>0.0377</b>	<b>3.2000e-004</b>	<b>0.0380</b>	<b>0.0100</b>	<b>3.0000e-004</b>	<b>0.0103</b>	<b>0.0000</b>	<b>32.1612</b>	<b>32.1612</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>32.1932</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	4.4687	10.3254	45.8361	0.0567	3.8907	0.1954	4.0862	1.0551	0.1792	1.2344	0.0000	5,095.2023	5,095.2023	0.3331	0.0000	5,102.1981
Unmitigated	4.4687	10.3254	45.8361	0.0567	3.8907	0.1954	4.0862	1.0551	0.1792	1.2344	0.0000	5,095.2023	5,095.2023	0.3331	0.0000	5,102.1981

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Junior College (2Yr)	5,456.64	1,091.33	0.00	10,294,023	10,294,023
<b>Total</b>	<b>5,456.64</b>	<b>1,091.33</b>	<b>0.00</b>	<b>10,294,023</b>	<b>10,294,023</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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.618828	0.059301	0.151819	0.086327	0.028684	0.003629	0.023451	0.002900	0.003167	0.011393	0.009452	0.000564	0.000484

**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	3,336.9669	3,336.9669	0.1509	0.0312	3,349.8132
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,336.9669	3,336.9669	0.1509	0.0312	3,349.8132
NaturalGas Mitigated	0.1568	1.4149	1.1208	8.5500e-003		0.1083	0.1083		0.1083	0.1083	0.0000	1,551.5745	1,551.5745	0.0297	0.0285	1,561.0171
NaturalGas Unmitigated	0.1568	1.4149	1.1208	8.5500e-003		0.1083	0.1083		0.1083	0.1083	0.0000	1,551.5745	1,551.5745	0.0297	0.0285	1,561.0171

**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					
Apartments Mid Rise	3.54199e+006	0.0191	0.1632	0.0695	1.0400e-003		0.0132	0.0132		0.0132	0.0132	0.0000	189.0139	189.0139	3.6200e-003	3.4700e-003	190.1642
Junior College (2Yr)	2.55334e+007	0.1377	1.2516	1.0514	7.5100e-003		0.0951	0.0951		0.0951	0.0951	0.0000	1,362.5606	1,362.5606	0.0261	0.0250	1,370.8529
<b>Total</b>		<b>0.1568</b>	<b>1.4149</b>	<b>1.1208</b>	<b>8.5500e-003</b>		<b>0.1083</b>	<b>0.1083</b>		<b>0.1083</b>	<b>0.1083</b>	<b>0.0000</b>	<b>1,551.5745</b>	<b>1,551.5745</b>	<b>0.0297</b>	<b>0.0285</b>	<b>1,561.0171</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					
Apartments Mid Rise	3.54199e+006	0.0191	0.1632	0.0695	1.0400e-003		0.0132	0.0132		0.0132	0.0132	0.0000	189.0139	189.0139	3.6200e-003	3.4700e-003	190.1642
Junior College (2Yr)	2.55334e+007	0.1377	1.2516	1.0514	7.5100e-003		0.0951	0.0951		0.0951	0.0951	0.0000	1,362.5606	1,362.5606	0.0261	0.0250	1,370.8529
<b>Total</b>		<b>0.1568</b>	<b>1.4149</b>	<b>1.1208</b>	<b>8.5500e-003</b>		<b>0.1083</b>	<b>0.1083</b>		<b>0.1083</b>	<b>0.1083</b>	<b>0.0000</b>	<b>1,551.5745</b>	<b>1,551.5745</b>	<b>0.0297</b>	<b>0.0285</b>	<b>1,561.0171</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.77574e+006	516.5845	0.0234	4.8300e-003	518.5732
Junior College (2Yr)	9.69499e+006	2,820.3824	0.1275	0.0264	2,831.2400
<b>Total</b>		<b>3,336.9669</b>	<b>0.1509</b>	<b>0.0312</b>	<b>3,349.8132</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.77574e+006	516.5845	0.0234	4.8300e-003	518.5732
Junior College (2Yr)	9.69499e+006	2,820.3824	0.1275	0.0264	2,831.2400
<b>Total</b>		<b>3,336.9669</b>	<b>0.1509</b>	<b>0.0312</b>	<b>3,349.8132</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	7.6537	0.0476	3.9764	2.0000e-004		0.0197	0.0197		0.0197	0.0197	0.0000	6.1055	6.1055	7.4800e-003	0.0000	6.2625
Unmitigated	7.6537	0.0476	3.9764	2.0000e-004		0.0197	0.0197		0.0197	0.0197	0.0000	6.1055	6.1055	7.4800e-003	0.0000	6.2625

## 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	1.8754					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.6349					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1433	0.0476	3.9764	2.0000e-004		0.0197	0.0197		0.0197	0.0197	0.0000	6.1055	6.1055	7.4800e-003	0.0000	6.2625
<b>Total</b>	<b>7.6536</b>	<b>0.0476</b>	<b>3.9764</b>	<b>2.0000e-004</b>		<b>0.0197</b>	<b>0.0197</b>		<b>0.0197</b>	<b>0.0197</b>	<b>0.0000</b>	<b>6.1055</b>	<b>6.1055</b>	<b>7.4800e-003</b>	<b>0.0000</b>	<b>6.2625</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	1.8754					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.6349					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1433	0.0476	3.9764	2.0000e-004		0.0197	0.0197		0.0197	0.0197	0.0000	6.1055	6.1055	7.4800e-003	0.0000	6.2625
<b>Total</b>	<b>7.6536</b>	<b>0.0476</b>	<b>3.9764</b>	<b>2.0000e-004</b>		<b>0.0197</b>	<b>0.0197</b>		<b>0.0197</b>	<b>0.0197</b>	<b>0.0000</b>	<b>6.1055</b>	<b>6.1055</b>	<b>7.4800e-003</b>	<b>0.0000</b>	<b>6.2625</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	243.6238	2.5788	0.0626	317.1907
Unmitigated	243.6238	2.5793	0.0627	317.2306



## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	32.7073 / 20.6198	82.8568	1.0691	0.0258	113.3181
Junior College (2Yr)	46.1453 / 72.176	160.7671	1.5103	0.0369	203.9125
<b>Total</b>		<b>243.6238</b>	<b>2.5793</b>	<b>0.0627</b>	<b>317.2306</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	32.7073 / 20.6198	82.8568	1.0689	0.0258	113.3015
Junior College (2Yr)	46.1453 / 72.176	160.7671	1.5100	0.0368	203.8892
<b>Total</b>		<b>243.6238</b>	<b>2.5788</b>	<b>0.0626</b>	<b>317.1907</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	295.1407	17.4423	0.0000	661.4294
Unmitigated	295.1407	17.4423	0.0000	661.4294

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	230.92	46.8747	2.7702	0.0000	105.0492
Junior College (2Yr)	1223.04	248.2661	14.6721	0.0000	556.3803
<b>Total</b>		<b>295.1407</b>	<b>17.4423</b>	<b>0.0000</b>	<b>661.4294</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	230.92	46.8747	2.7702	0.0000	105.0492
Junior College (2Yr)	1223.04	248.2661	14.6721	0.0000	556.3803
<b>Total</b>		<b>295.1407</b>	<b>17.4423</b>	<b>0.0000</b>	<b>661.4294</b>

## 9.0 Operational Offroad

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

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**8. CalEEMod Cumulative Year 2016 Outputs– Summer (pounds per day)**

## AAU Cumulative Year 2016 San Francisco County, Summer

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	940.80	1000sqft	21.60	940,804.00	0
Apartment Mid Rise	502.00	Dwelling Unit	13.21	502,000.00	1053

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2016
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Total dwelling units and square footage according to information provided in in Table A-1 of the ESTM

Construction Phase - Only operational emissions are used. Construction emissions from this CalEEMod run were not used in the construction AQ analysis.

Architectural Coating -

Vehicle Trips - Vehicle trips are based on project specific traffic study. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Woodstoves - Assumed no fireplaces or woodstoves.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	250
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	250
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	7,191.67	5,393.80
tblEnergyUse	T24NG	35.21	26.40
tblFireplaces	NumberGas	276.10	0.00
tblFireplaces	NumberWood	70.28	0.00
tblLandUse	LandUseSquareFeet	940,800.00	940,804.00
tblLandUse	Population	1,436.00	1,053.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	11.23	1.16
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	27.49	5.80
tblWoodstoves	NumberCatalytic	2.51	0.00
tblWoodstoves	NumberNoncatalytic	2.51	0.00

## 2.0 Emissions Summary

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	8.0468	69.6699	83.2174	0.1699	18.2360	3.3188	20.9917	9.9757	3.0533	12.5109	0.0000	15,045.45 55	15,045.45 55	1.9442	0.0000	15,086.28 30
2018	6.9118	42.0433	74.8904	0.1695	8.5119	1.7880	10.3000	2.2850	1.6753	3.9602	0.0000	14,630.55 81	14,630.55 81	1.0177	0.0000	14,651.92 88
2019	6.3383	38.2250	71.1686	0.1696	8.5127	1.5622	10.0748	2.2852	1.4636	3.7488	0.0000	14,271.92 16	14,271.92 16	0.9848	0.0000	14,292.60 21
2020	307.5363	34.0938	67.1882	0.1696	8.5130	1.3661	9.8792	2.2853	1.2799	3.5652	0.0000	13,848.96 54	13,848.96 54	0.9583	0.0000	13,869.09 04
<b>Total</b>	<b>328.8332</b>	<b>184.0319</b>	<b>296.4646</b>	<b>0.6786</b>	<b>43.7736</b>	<b>8.0351</b>	<b>51.2456</b>	<b>16.8311</b>	<b>7.4721</b>	<b>23.7851</b>	<b>0.0000</b>	<b>57,796.90 06</b>	<b>57,796.90 06</b>	<b>4.9050</b>	<b>0.0000</b>	<b>57,899.90 44</b>





**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	37.4298	0.4923	42.0913	2.1900e-003		0.2269	0.2269		0.2269	0.2269	0.0000	74.7792	74.7792	0.0766	0.0000	76.3873
Energy	0.8591	7.7526	6.1415	0.0469		0.5935	0.5935		0.5935	0.5935		9,371.6139	9,371.6139	0.1796	0.1718	9,428.6480
Mobile	19.6696	40.1731	187.9822	0.4354	29.8788	0.6638	30.5426	8.0737	0.6104	8.6841		37,744.5382	37,744.5382	1.5470		37,777.0256
<b>Total</b>	<b>57.9584</b>	<b>48.4180</b>	<b>236.2150</b>	<b>0.4845</b>	<b>29.8788</b>	<b>1.4842</b>	<b>31.3630</b>	<b>8.0737</b>	<b>1.4308</b>	<b>9.5046</b>	<b>0.0000</b>	<b>47,190.9313</b>	<b>47,190.9313</b>	<b>1.8032</b>	<b>0.1718</b>	<b>47,282.0609</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	37.4298	0.4923	42.0913	2.1900e-003		0.2269	0.2269		0.2269	0.2269	0.0000	74.7792	74.7792	0.0766	0.0000	76.3873
Energy	0.8591	7.7526	6.1415	0.0469		0.5935	0.5935		0.5935	0.5935		9,371.6139	9,371.6139	0.1796	0.1718	9,428.6480
Mobile	19.6696	40.1731	187.9822	0.4354	29.8788	0.6638	30.5426	8.0737	0.6104	8.6841		37,744.5382	37,744.5382	1.5470		37,777.0256
<b>Total</b>	<b>57.9584</b>	<b>48.4180</b>	<b>236.2150</b>	<b>0.4845</b>	<b>29.8788</b>	<b>1.4842</b>	<b>31.3630</b>	<b>8.0737</b>	<b>1.4308</b>	<b>9.5046</b>	<b>0.0000</b>	<b>47,190.9313</b>	<b>47,190.9313</b>	<b>1.8032</b>	<b>0.1718</b>	<b>47,282.0609</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	1/1/2017	3/10/2017	5	50	
2	Site Preparation	Site Preparation	3/11/2017	4/21/2017	5	30	
3	Grading	Grading	4/22/2017	8/4/2017	5	75	
4	Building Construction	Building Construction	8/5/2017	6/5/2020	5	740	
5	Paving	Paving	6/6/2020	8/21/2020	5	55	
6	Architectural Coating	Architectural Coating	8/22/2020	11/6/2020	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 1,016,550; Residential Outdoor: 338,850; Non-Residential Indoor: 1,411,206; Non-Residential Outdoor: 470,402  
(Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	757.00	208.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	151.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
<b>Total</b>	<b>4.0482</b>	<b>42.6971</b>	<b>33.8934</b>	<b>0.0399</b>		<b>2.1252</b>	<b>2.1252</b>		<b>1.9797</b>	<b>1.9797</b>		<b>4,036.4674</b>	<b>4,036.4674</b>	<b>1.1073</b>		<b>4,059.7211</b>

### 3.2 Demolition - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0507	0.0585	0.7068	1.8900e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1100e-003	0.0386		152.5274	152.5274	7.3200e-003			152.6812
<b>Total</b>	<b>0.0507</b>	<b>0.0585</b>	<b>0.7068</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2100e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1100e-003</b>	<b>0.0386</b>		<b>152.5274</b>	<b>152.5274</b>	<b>7.3200e-003</b>			<b>152.6812</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	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797	0.0000	4,036.4674	4,036.4674	1.1073			4,059.7211
<b>Total</b>	<b>4.0482</b>	<b>42.6971</b>	<b>33.8934</b>	<b>0.0399</b>		<b>2.1252</b>	<b>2.1252</b>		<b>1.9797</b>	<b>1.9797</b>	<b>0.0000</b>	<b>4,036.4674</b>	<b>4,036.4674</b>	<b>1.1073</b>			<b>4,059.7211</b>

### 3.2 Demolition - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0507	0.0585	0.7068	1.8900e-003	0.1415	1.2100e-003	0.1427	0.0375	1.1100e-003	0.0386		152.5274	152.5274	7.3200e-003			152.6812
<b>Total</b>	<b>0.0507</b>	<b>0.0585</b>	<b>0.7068</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.2100e-003</b>	<b>0.1427</b>	<b>0.0375</b>	<b>1.1100e-003</b>	<b>0.0386</b>		<b>152.5274</b>	<b>152.5274</b>	<b>7.3200e-003</b>			<b>152.6812</b>

### 3.3 Site Preparation - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.0859	4,003.0859	1.2265			4,028.8432
<b>Total</b>	<b>4.8382</b>	<b>51.7535</b>	<b>39.3970</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.7542</b>	<b>20.8205</b>	<b>9.9307</b>	<b>2.5339</b>	<b>12.4646</b>		<b>4,003.0859</b>	<b>4,003.0859</b>	<b>1.2265</b>			<b>4,028.8432</b>

### 3.3 Site Preparation - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0608	0.0702	0.8482	2.2600e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3400e-003	0.0464		183.0329	183.0329	8.7900e-003			183.2174
<b>Total</b>	<b>0.0608</b>	<b>0.0702</b>	<b>0.8482</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.4500e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3400e-003</b>	<b>0.0464</b>		<b>183.0329</b>	<b>183.0329</b>	<b>8.7900e-003</b>			<b>183.2174</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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000	
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339	0.0000	4,003.0859	4,003.0859	1.2265			4,028.8432
<b>Total</b>	<b>4.8382</b>	<b>51.7535</b>	<b>39.3970</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.7542</b>	<b>20.8205</b>	<b>9.9307</b>	<b>2.5339</b>	<b>12.4646</b>	<b>0.0000</b>	<b>4,003.0859</b>	<b>4,003.0859</b>	<b>1.2265</b>			<b>4,028.8432</b>

### 3.3 Site Preparation - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0608	0.0702	0.8482	2.2600e-003	0.1698	1.4500e-003	0.1712	0.0450	1.3400e-003	0.0464		183.0329	183.0329	8.7900e-003			183.2174
<b>Total</b>	<b>0.0608</b>	<b>0.0702</b>	<b>0.8482</b>	<b>2.2600e-003</b>	<b>0.1698</b>	<b>1.4500e-003</b>	<b>0.1712</b>	<b>0.0450</b>	<b>1.3400e-003</b>	<b>0.0464</b>		<b>183.0329</b>	<b>183.0329</b>	<b>8.7900e-003</b>			<b>183.2174</b>

### 3.4 Grading - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000	
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518		6,313.3690	6,313.3690	1.9344			6,353.9915
<b>Total</b>	<b>6.0991</b>	<b>69.5920</b>	<b>46.8050</b>	<b>0.0617</b>	<b>8.6733</b>	<b>3.3172</b>	<b>11.9905</b>	<b>3.5965</b>	<b>3.0518</b>	<b>6.6483</b>		<b>6,313.3690</b>	<b>6,313.3690</b>	<b>1.9344</b>			<b>6,353.9915</b>



### 3.4 Grading - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0675	0.0780	0.9424	2.5200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4900e-003	0.0515		203.3699	203.3699	9.7600e-003			203.5749
<b>Total</b>	<b>0.0675</b>	<b>0.0780</b>	<b>0.9424</b>	<b>2.5200e-003</b>	<b>0.1886</b>	<b>1.6100e-003</b>	<b>0.1902</b>	<b>0.0500</b>	<b>1.4900e-003</b>	<b>0.0515</b>		<b>203.3699</b>	<b>203.3699</b>	<b>9.7600e-003</b>			<b>203.5749</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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000	
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518	0.0000	6,313.3690	6,313.3690	1.9344			6,353.9915
<b>Total</b>	<b>6.0991</b>	<b>69.5920</b>	<b>46.8050</b>	<b>0.0617</b>	<b>8.6733</b>	<b>3.3172</b>	<b>11.9905</b>	<b>3.5965</b>	<b>3.0518</b>	<b>6.6483</b>	<b>0.0000</b>	<b>6,313.3690</b>	<b>6,313.3690</b>	<b>1.9344</b>			<b>6,353.9915</b>

### 3.4 Grading - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	0.0675	0.0780	0.9424	2.5200e-003	0.1886	1.6100e-003	0.1902	0.0500	1.4900e-003	0.0515		203.3699	203.3699	9.7600e-003			203.5749
<b>Total</b>	<b>0.0675</b>	<b>0.0780</b>	<b>0.9424</b>	<b>2.5200e-003</b>	<b>0.1886</b>	<b>1.6100e-003</b>	<b>0.1902</b>	<b>0.0500</b>	<b>1.4900e-003</b>	<b>0.0515</b>		<b>203.3699</b>	<b>203.3699</b>	<b>9.7600e-003</b>			<b>203.5749</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>		<b>2,639.8053</b>	<b>2,639.8053</b>	<b>0.6497</b>			<b>2,653.4490</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	2.3882	17.7699	29.4182	0.0479	1.3740	0.2554	1.6293	0.3918	0.2347	0.6265		4,708.1004	4,708.1004	0.0355			4,708.8459
Worker	2.5562	2.9502	35.6701	0.0952	7.1387	0.0609	7.1996	1.8934	0.0562	1.9496		7,697.5498	7,697.5498	0.3695			7,705.3098
<b>Total</b>	<b>4.9444</b>	<b>20.7202</b>	<b>65.0883</b>	<b>0.1431</b>	<b>8.5127</b>	<b>0.3163</b>	<b>8.8290</b>	<b>2.2852</b>	<b>0.2909</b>	<b>2.5761</b>		<b>12,405.6502</b>	<b>12,405.6502</b>	<b>0.4050</b>			<b>12,414.1557</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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>	<b>0.0000</b>	<b>2,639.8053</b>	<b>2,639.8053</b>	<b>0.6497</b>			<b>2,653.4490</b>

### 3.5 Building Construction - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	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	2.3882	17.7699	29.4182	0.0479	1.3740	0.2554	1.6293	0.3918	0.2347	0.6265		4,708.1004	4,708.1004	0.0355			4,708.8459
Worker	2.5562	2.9502	35.6701	0.0952	7.1387	0.0609	7.1996	1.8934	0.0562	1.9496		7,697.5498	7,697.5498	0.3695			7,705.3098
<b>Total</b>	<b>4.9444</b>	<b>20.7202</b>	<b>65.0883</b>	<b>0.1431</b>	<b>8.5127</b>	<b>0.3163</b>	<b>8.8290</b>	<b>2.2852</b>	<b>0.2909</b>	<b>2.5761</b>		<b>12,405.6502</b>	<b>12,405.6502</b>	<b>0.4050</b>			<b>12,414.1557</b>

### 3.5 Building Construction - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048		2,609.9390	2,609.9390	0.6387			2,623.3517
<b>Total</b>	<b>2.6687</b>	<b>23.2608</b>	<b>17.5327</b>	<b>0.0268</b>		<b>1.4943</b>	<b>1.4943</b>		<b>1.4048</b>	<b>1.4048</b>		<b>2,609.9390</b>	<b>2,609.9390</b>	<b>0.6387</b>			<b>2,623.3517</b>

### 3.5 Building Construction - 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	1.9037	16.0929	24.7424	0.0475	1.3732	0.2340	1.6072	0.3916	0.2152	0.6068		4,607.7219	4,607.7219	0.0347			4,608.4498
Worker	2.3395	2.6895	32.6154	0.0952	7.1387	0.0598	7.1985	1.8934	0.0553	1.9487		7,412.8973	7,412.8973	0.3443			7,420.1273
<b>Total</b>	<b>4.2432</b>	<b>18.7824</b>	<b>57.3577</b>	<b>0.1427</b>	<b>8.5119</b>	<b>0.2938</b>	<b>8.8057</b>	<b>2.2850</b>	<b>0.2705</b>	<b>2.5554</b>		<b>12,020.6192</b>	<b>12,020.6192</b>	<b>0.3790</b>			<b>12,028.5771</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048	0.0000	2,609.9389	2,609.9389	0.6387			2,623.3517
<b>Total</b>	<b>2.6687</b>	<b>23.2608</b>	<b>17.5327</b>	<b>0.0268</b>		<b>1.4943</b>	<b>1.4943</b>		<b>1.4048</b>	<b>1.4048</b>	<b>0.0000</b>	<b>2,609.9389</b>	<b>2,609.9389</b>	<b>0.6387</b>			<b>2,623.3517</b>

### 3.5 Building Construction - 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	1.9037	16.0929	24.7424	0.0475	1.3732	0.2340	1.6072	0.3916	0.2152	0.6068		4,607.7219	4,607.7219	0.0347			4,608.4498
Worker	2.3395	2.6895	32.6154	0.0952	7.1387	0.0598	7.1985	1.8934	0.0553	1.9487		7,412.8973	7,412.8973	0.3443			7,420.1273
<b>Total</b>	<b>4.2432</b>	<b>18.7824</b>	<b>57.3577</b>	<b>0.1427</b>	<b>8.5119</b>	<b>0.2938</b>	<b>8.8057</b>	<b>2.2850</b>	<b>0.2705</b>	<b>2.5554</b>		<b>12,020.6192</b>	<b>12,020.6192</b>	<b>0.3790</b>			<b>12,028.5771</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	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083		2,580.7618	2,580.7618	0.6279			2,593.9479
<b>Total</b>	<b>2.3516</b>	<b>20.9650</b>	<b>17.1204</b>	<b>0.0268</b>		<b>1.2850</b>	<b>1.2850</b>		<b>1.2083</b>	<b>1.2083</b>		<b>2,580.7618</b>	<b>2,580.7618</b>	<b>0.6279</b>			<b>2,593.9479</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	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	1.8291	14.7934	24.0457	0.0476	1.3739	0.2181	1.5920	0.3918	0.2005	0.5924		4,545.5708	4,545.5708	0.0340		4,546.2844
Worker	2.1576	2.4666	30.0026	0.0952	7.1387	0.0591	7.1978	1.8934	0.0548	1.9481		7,145.5890	7,145.5890	0.3229		7,152.3698
<b>Total</b>	<b>3.9867</b>	<b>17.2600</b>	<b>54.0482</b>	<b>0.1428</b>	<b>8.5127</b>	<b>0.2771</b>	<b>8.7898</b>	<b>2.2852</b>	<b>0.2553</b>	<b>2.5405</b>		<b>11,691.1598</b>	<b>11,691.1598</b>	<b>0.3569</b>		<b>11,698.6542</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083	0.0000	2,580.7618	2,580.7618	0.6279		2,593.9479
<b>Total</b>	<b>2.3516</b>	<b>20.9650</b>	<b>17.1204</b>	<b>0.0268</b>		<b>1.2850</b>	<b>1.2850</b>		<b>1.2083</b>	<b>1.2083</b>	<b>0.0000</b>	<b>2,580.7618</b>	<b>2,580.7618</b>	<b>0.6279</b>		<b>2,593.9479</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	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	1.8291	14.7934	24.0457	0.0476	1.3739	0.2181	1.5920	0.3918	0.2005	0.5924		4,545.5708	4,545.5708	0.0340			4,546.2844
Worker	2.1576	2.4666	30.0026	0.0952	7.1387	0.0591	7.1978	1.8934	0.0548	1.9481		7,145.5890	7,145.5890	0.3229			7,152.3698
<b>Total</b>	<b>3.9867</b>	<b>17.2600</b>	<b>54.0482</b>	<b>0.1428</b>	<b>8.5127</b>	<b>0.2771</b>	<b>8.7898</b>	<b>2.2852</b>	<b>0.2553</b>	<b>2.5405</b>		<b>11,691.1598</b>	<b>11,691.1598</b>	<b>0.3569</b>			<b>11,698.6542</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	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465		2,542.4799	2,542.4799	0.6194			2,555.4880
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>		<b>2,542.4799</b>	<b>2,542.4799</b>	<b>0.6194</b>			<b>2,555.4880</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	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	1.6587	12.7229	22.4355	0.0476	1.3743	0.1944	1.5687	0.3919	0.1788	0.5707		4,448.861 2	4,448.861 2	0.0330			4,449.553 5
Worker	2.0238	2.2869	27.9443	0.0952	7.1387	0.0589	7.1977	1.8934	0.0546	1.9480		6,857.624 3	6,857.624 3	0.3059			6,864.048 9
<b>Total</b>	<b>3.6825</b>	<b>15.0098</b>	<b>50.3798</b>	<b>0.1428</b>	<b>8.5130</b>	<b>0.2533</b>	<b>8.7663</b>	<b>2.2853</b>	<b>0.2335</b>	<b>2.5188</b>		<b>11,306.48 55</b>	<b>11,306.48 55</b>	<b>0.3389</b>			<b>11,313.60 24</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465	0.0000	2,542.479 9	2,542.479 9	0.6194			2,555.488 0
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>	<b>0.0000</b>	<b>2,542.479 9</b>	<b>2,542.479 9</b>	<b>0.6194</b>			<b>2,555.488 0</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	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	1.6587	12.7229	22.4355	0.0476	1.3743	0.1944	1.5687	0.3919	0.1788	0.5707		4,448.861 2	4,448.861 2	0.0330			4,449.553 5
Worker	2.0238	2.2869	27.9443	0.0952	7.1387	0.0589	7.1977	1.8934	0.0546	1.9480		6,857.624 3	6,857.624 3	0.3059			6,864.048 9
<b>Total</b>	<b>3.6825</b>	<b>15.0098</b>	<b>50.3798</b>	<b>0.1428</b>	<b>8.5130</b>	<b>0.2533</b>	<b>8.7663</b>	<b>2.2853</b>	<b>0.2335</b>	<b>2.5188</b>		<b>11,306.48 55</b>	<b>11,306.48 55</b>	<b>0.3389</b>			<b>11,313.60 24</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	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799		2,160.757 1	2,160.757 1	0.6988			2,175.432 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.3301</b>	<b>13.7845</b>	<b>14.3523</b>	<b>0.0223</b>		<b>0.7390</b>	<b>0.7390</b>		<b>0.6799</b>	<b>0.6799</b>		<b>2,160.757 1</b>	<b>2,160.757 1</b>	<b>0.6988</b>			<b>2,175.432 6</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	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	0.0401	0.0453	0.5537	1.8900e-003	0.1415	1.1700e-003	0.1426	0.0375	1.0800e-003	0.0386		135.8842	135.8842	6.0600e-003			136.0115
<b>Total</b>	<b>0.0401</b>	<b>0.0453</b>	<b>0.5537</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.1700e-003</b>	<b>0.1426</b>	<b>0.0375</b>	<b>1.0800e-003</b>	<b>0.0386</b>		<b>135.8842</b>	<b>135.8842</b>	<b>6.0600e-003</b>			<b>136.0115</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	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799	0.0000	2,160.7571	2,160.7571	0.6988			2,175.4326
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.3301</b>	<b>13.7845</b>	<b>14.3523</b>	<b>0.0223</b>		<b>0.7390</b>	<b>0.7390</b>		<b>0.6799</b>	<b>0.6799</b>	<b>0.0000</b>	<b>2,160.7571</b>	<b>2,160.7571</b>	<b>0.6988</b>			<b>2,175.4326</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	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	0.0401	0.0453	0.5537	1.8900e-003	0.1415	1.1700e-003	0.1426	0.0375	1.0800e-003	0.0386		135.8842	135.8842	6.0600e-003		136.0115
<b>Total</b>	<b>0.0401</b>	<b>0.0453</b>	<b>0.5537</b>	<b>1.8900e-003</b>	<b>0.1415</b>	<b>1.1700e-003</b>	<b>0.1426</b>	<b>0.0375</b>	<b>1.0800e-003</b>	<b>0.0386</b>		<b>135.8842</b>	<b>135.8842</b>	<b>6.0600e-003</b>		<b>136.0115</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	306.8904					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9057
<b>Total</b>	<b>307.1326</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9057</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	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	0.4037	0.4562	5.5741	0.0190	1.4240	0.0118	1.4357	0.3777	0.0109	0.3886		1,367.9013	1,367.9013	0.0610			1,369.1828
<b>Total</b>	<b>0.4037</b>	<b>0.4562</b>	<b>5.5741</b>	<b>0.0190</b>	<b>1.4240</b>	<b>0.0118</b>	<b>1.4357</b>	<b>0.3777</b>	<b>0.0109</b>	<b>0.3886</b>		<b>1,367.9013</b>	<b>1,367.9013</b>	<b>0.0610</b>			<b>1,369.1828</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						
Archit. Coating	306.8904					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218			281.9057
<b>Total</b>	<b>307.1326</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>			<b>281.9057</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	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	0.4037	0.4562	5.5741	0.0190	1.4240	0.0118	1.4357	0.3777	0.0109	0.3886		1,367.9013	1,367.9013	0.0610			1,369.1828
<b>Total</b>	<b>0.4037</b>	<b>0.4562</b>	<b>5.5741</b>	<b>0.0190</b>	<b>1.4240</b>	<b>0.0118</b>	<b>1.4357</b>	<b>0.3777</b>	<b>0.0109</b>	<b>0.3886</b>		<b>1,367.9013</b>	<b>1,367.9013</b>	<b>0.0610</b>			<b>1,369.1828</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	19.6696	40.1731	187.9822	0.4354	29.8788	0.6638	30.5426	8.0737	0.6104	8.6841		37,744.5382	37,744.5382	1.5470			37,777.0256
Unmitigated	19.6696	40.1731	187.9822	0.4354	29.8788	0.6638	30.5426	8.0737	0.6104	8.6841		37,744.5382	37,744.5382	1.5470			37,777.0256

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Junior College (2Yr)	5,456.64	1,091.33	0.00	10,294,023	10,294,023
<b>Total</b>	<b>5,456.64</b>	<b>1,091.33</b>	<b>0.00</b>	<b>10,294,023</b>	<b>10,294,023</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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.628026	0.058431	0.149152	0.079214	0.026557	0.003351	0.026114	0.003803	0.003113	0.011024	0.010157	0.000551	0.000507

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.8591	7.7526	6.1415	0.0469		0.5935	0.5935		0.5935	0.5935		9,371.6139	9,371.6139	0.1796	0.1718	9,428.6480
NaturalGas Unmitigated	0.8591	7.7526	6.1415	0.0469		0.5935	0.5935		0.5935	0.5935		9,371.6139	9,371.6139	0.1796	0.1718	9,428.6480

### 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					
Junior College (2Yr)	69954.6	0.7544	6.8583	5.7610	0.0412		0.5212	0.5212		0.5212	0.5212		8,229.9502	8,229.9502	0.1577	0.1509	8,280.0363
Apartments Mid Rise	9704.14	0.1047	0.8943	0.3806	5.7100e-003		0.0723	0.0723		0.0723	0.0723		1,141.6637	1,141.6637	0.0219	0.0209	1,148.6117
<b>Total</b>		<b>0.8591</b>	<b>7.7526</b>	<b>6.1415</b>	<b>0.0469</b>		<b>0.5935</b>	<b>0.5935</b>		<b>0.5935</b>	<b>0.5935</b>		<b>9,371.6139</b>	<b>9,371.6139</b>	<b>0.1796</b>	<b>0.1718</b>	<b>9,428.6480</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					
Apartments Mid Rise	9.70414	0.1047	0.8943	0.3806	5.7100e-003		0.0723	0.0723		0.0723	0.0723		1,141.6637	1,141.6637	0.0219	0.0209	1,148.6117
Junior College (2Yr)	69.9546	0.7544	6.8583	5.7610	0.0412		0.5212	0.5212		0.5212	0.5212		8,229.9502	8,229.9502	0.1577	0.1509	8,280.0363
<b>Total</b>		<b>0.8591</b>	<b>7.7526</b>	<b>6.1415</b>	<b>0.0469</b>		<b>0.5935</b>	<b>0.5935</b>		<b>0.5935</b>	<b>0.5935</b>		<b>9,371.6139</b>	<b>9,371.6139</b>	<b>0.1796</b>	<b>0.1718</b>	<b>9,428.6480</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	37.4298	0.4923	42.0913	2.1900e-003		0.2269	0.2269		0.2269	0.2269	0.0000	74.7792	74.7792	0.0766	0.0000	76.3873
Unmitigated	37.4298	0.4923	42.0913	2.1900e-003		0.2269	0.2269		0.2269	0.2269	0.0000	74.7792	74.7792	0.0766	0.0000	76.3873

## 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	5.2217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	30.8760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3321	0.4923	42.0913	2.1900e-003		0.2269	0.2269		0.2269	0.2269		74.7792	74.7792	0.0766		76.3873
<b>Total</b>	<b>37.4298</b>	<b>0.4923</b>	<b>42.0913</b>	<b>2.1900e-003</b>		<b>0.2269</b>	<b>0.2269</b>		<b>0.2269</b>	<b>0.2269</b>	<b>0.0000</b>	<b>74.7792</b>	<b>74.7792</b>	<b>0.0766</b>	<b>0.0000</b>	<b>76.3873</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	lb/day										lb/day					
Architectural Coating	5.2217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	30.8760					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3321	0.4923	42.0913	2.1900e-003		0.2269	0.2269		0.2269	0.2269		74.7792	74.7792	0.0766		76.3873
<b>Total</b>	<b>37.4298</b>	<b>0.4923</b>	<b>42.0913</b>	<b>2.1900e-003</b>		<b>0.2269</b>	<b>0.2269</b>		<b>0.2269</b>	<b>0.2269</b>	<b>0.0000</b>	<b>74.7792</b>	<b>74.7792</b>	<b>0.0766</b>	<b>0.0000</b>	<b>76.3873</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
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## 10.0 Vegetation

**9. CalEEMod Cumulative Year 2016 Outputs– Annual (tons per year)**

## AAU Cumulative Year 2016 San Francisco County, Annual

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	940.80	1000sqft	21.60	940,804.00	0
Apartments Mid Rise	502.00	Dwelling Unit	13.21	502,000.00	1053

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	4.6	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	5			<b>Operational Year</b>	2016
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<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 - Total dwelling units and square footage according to information provided in in Table A-1 of the ESTM

Construction Phase - Only operational emissions are used. Construction emissions from this CalEEMod run were not used in the construction AQ analysis.

Architectural Coating -

Vehicle Trips - Vehicle trips are based on project specific traffic study. Shuttle trip emissions estimated separately. 1/29/16 adjustment to trip rates due to updated information.

Woodstoves - Assumed no fireplaces or woodstoves.

Energy Use - Adjust for 2013 Title 24 Energy Intensity

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	250
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	250
tblEnergyUse	T24E	312.05	234.04
tblEnergyUse	T24E	5.06	3.80
tblEnergyUse	T24NG	7,191.67	5,393.80
tblEnergyUse	T24NG	35.21	26.40
tblFireplaces	NumberGas	276.10	0.00
tblFireplaces	NumberWood	70.28	0.00
tblLandUse	LandUseSquareFeet	940,800.00	940,804.00
tblLandUse	Population	1,436.00	1,053.00
tblProjectCharacteristics	OperationalYear	2014	2016
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	11.23	1.16
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	27.49	5.80
tblWoodstoves	NumberCatalytic	2.51	0.00
tblWoodstoves	NumberNoncatalytic	2.51	0.00

## 2.0 Emissions Summary

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**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.8422	6.9947	7.8864	0.0127	1.0392	0.3291	1.3684	0.4031	0.3052	0.7083	0.0000	1,067.6895	1,067.6895	0.1585	0.0000	1,071.0177
2018	0.9192	5.6242	10.4439	0.0214	1.0696	0.2335	1.3030	0.2881	0.2188	0.5068	0.0000	1,679.7970	1,679.7970	0.1205	0.0000	1,682.3281
2019	0.8428	5.1144	9.9452	0.0214	1.0697	0.2040	1.2737	0.2881	0.1911	0.4792	0.0000	1,639.1452	1,639.1452	0.1166	0.0000	1,641.5946
2020	8.8268	2.4160	4.6851	0.0105	0.5045	0.1010	0.6055	0.1358	0.0944	0.2302	0.0000	785.1210	785.1210	0.0688	0.0000	786.5657
<b>Total</b>	<b>11.4309</b>	<b>20.1493</b>	<b>32.9607</b>	<b>0.0660</b>	<b>3.6830</b>	<b>0.8676</b>	<b>4.5505</b>	<b>1.1150</b>	<b>0.8095</b>	<b>1.9245</b>	<b>0.0000</b>	<b>5,171.7528</b>	<b>5,171.7528</b>	<b>0.4644</b>	<b>0.0000</b>	<b>5,181.5060</b>





**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	6.7077	0.0443	3.7882	2.0000e-004		0.0204	0.0204		0.0204	0.0204	0.0000	6.1055	6.1055	6.2500e-003	0.0000		6.2368
Energy	0.1568	1.4149	1.1208	8.5500e-003		0.1083	0.1083		0.1083	0.1083	0.0000	4,889.911 1	4,889.911 1	0.1807	0.0597		4,912.205 3
Mobile	2.6326	5.8427	26.0507	0.0560	3.8905	0.0898	3.9803	1.0550	0.0826	1.1376	0.0000	4,412.896 6	4,412.896 6	0.1896	0.0000		4,416.877 1
Waste						0.0000	0.0000		0.0000	0.0000	295.1407	0.0000	295.1407	17.4423	0.0000		661.4294
Water						0.0000	0.0000		0.0000	0.0000	25.0163	218.6075	243.6238	2.5793	0.0627		317.2306
<b>Total</b>	<b>9.4971</b>	<b>7.3018</b>	<b>30.9597</b>	<b>0.0648</b>	<b>3.8905</b>	<b>0.2186</b>	<b>4.1090</b>	<b>1.0550</b>	<b>0.2114</b>	<b>1.2663</b>	<b>320.1571</b>	<b>9,527.520 7</b>	<b>9,847.677 7</b>	<b>20.3981</b>	<b>0.1224</b>		<b>10,313.97 92</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	6.7077	0.0443	3.7882	2.0000e-004		0.0204	0.0204		0.0204	0.0204	0.0000	6.1055	6.1055	6.2500e-003	0.0000	6.2368
Energy	0.1568	1.4149	1.1208	8.5500e-003		0.1083	0.1083		0.1083	0.1083	0.0000	4,889.911 1	4,889.911 1	0.1807	0.0597	4,912.205 3
Mobile	2.6326	5.8427	26.0507	0.0560	3.8905	0.0898	3.9803	1.0550	0.0826	1.1376	0.0000	4,412.896 6	4,412.896 6	0.1896	0.0000	4,416.877 1
Waste						0.0000	0.0000		0.0000	0.0000	295.1407	0.0000	295.1407	17.4423	0.0000	661.4294
Water						0.0000	0.0000		0.0000	0.0000	25.0163	218.6075	243.6238	2.5788	0.0626	317.1907
<b>Total</b>	<b>9.4971</b>	<b>7.3018</b>	<b>30.9597</b>	<b>0.0648</b>	<b>3.8905</b>	<b>0.2186</b>	<b>4.1090</b>	<b>1.0550</b>	<b>0.2114</b>	<b>1.2663</b>	<b>320.1571</b>	<b>9,527.520 7</b>	<b>9,847.677 7</b>	<b>20.3976</b>	<b>0.1223</b>	<b>10,313.93 93</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	0.07	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	1/1/2017	3/10/2017	5	50	
2	Site Preparation	Site Preparation	3/11/2017	4/21/2017	5	30	
3	Grading	Grading	4/22/2017	8/4/2017	5	75	
4	Building Construction	Building Construction	8/5/2017	6/5/2020	5	740	
5	Paving	Paving	6/6/2020	8/21/2020	5	55	
6	Architectural Coating	Architectural Coating	8/22/2020	11/6/2020	5	55	

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

**Acres of Grading (Grading Phase): 187.5**

**Acres of Paving: 0**

**Residential Indoor: 1,016,550; Residential Outdoor: 338,850; Non-Residential Indoor: 1,411,206; Non-Residential Outdoor: 470,402  
(Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**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	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	757.00	208.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	151.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1012	1.0674	0.8473	1.0000e-003		0.0531	0.0531		0.0495	0.0495	0.0000	91.5455	91.5455	0.0251	0.0000	92.0729
<b>Total</b>	<b>0.1012</b>	<b>1.0674</b>	<b>0.8473</b>	<b>1.0000e-003</b>		<b>0.0531</b>	<b>0.0531</b>		<b>0.0495</b>	<b>0.0495</b>	<b>0.0000</b>	<b>91.5455</b>	<b>91.5455</b>	<b>0.0251</b>	<b>0.0000</b>	<b>92.0729</b>

### 3.2 Demolition - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.2200e-003	1.6800e-003	0.0168	4.0000e-005	3.4000e-003	3.0000e-005	3.4300e-003	9.0000e-004	3.0000e-005	9.3000e-004	0.0000	3.2606	3.2606	1.7000e-004	0.0000	3.2641
<b>Total</b>	<b>1.2200e-003</b>	<b>1.6800e-003</b>	<b>0.0168</b>	<b>4.0000e-005</b>	<b>3.4000e-003</b>	<b>3.0000e-005</b>	<b>3.4300e-003</b>	<b>9.0000e-004</b>	<b>3.0000e-005</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>3.2606</b>	<b>3.2606</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>3.2641</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	0.1012	1.0674	0.8473	1.0000e-003		0.0531	0.0531		0.0495	0.0495	0.0000	91.5454	91.5454	0.0251	0.0000	92.0728
<b>Total</b>	<b>0.1012</b>	<b>1.0674</b>	<b>0.8473</b>	<b>1.0000e-003</b>		<b>0.0531</b>	<b>0.0531</b>		<b>0.0495</b>	<b>0.0495</b>	<b>0.0000</b>	<b>91.5454</b>	<b>91.5454</b>	<b>0.0251</b>	<b>0.0000</b>	<b>92.0728</b>

### 3.2 Demolition - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.2200e-003	1.6800e-003	0.0168	4.0000e-005	3.4000e-003	3.0000e-005	3.4300e-003	9.0000e-004	3.0000e-005	9.3000e-004	0.0000	3.2606	3.2606	1.7000e-004	0.0000	3.2641
<b>Total</b>	<b>1.2200e-003</b>	<b>1.6800e-003</b>	<b>0.0168</b>	<b>4.0000e-005</b>	<b>3.4000e-003</b>	<b>3.0000e-005</b>	<b>3.4300e-003</b>	<b>9.0000e-004</b>	<b>3.0000e-005</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>3.2606</b>	<b>3.2606</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>3.2641</b>

### 3.3 Site Preparation - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0726	0.7763	0.5910	5.9000e-004		0.0413	0.0413		0.0380	0.0380	0.0000	54.4731	54.4731	0.0167	0.0000	54.8236
<b>Total</b>	<b>0.0726</b>	<b>0.7763</b>	<b>0.5910</b>	<b>5.9000e-004</b>	<b>0.2710</b>	<b>0.0413</b>	<b>0.3123</b>	<b>0.1490</b>	<b>0.0380</b>	<b>0.1870</b>	<b>0.0000</b>	<b>54.4731</b>	<b>54.4731</b>	<b>0.0167</b>	<b>0.0000</b>	<b>54.8236</b>

### 3.3 Site Preparation - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	8.8000e-004	1.2100e-003	0.0121	3.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3476	2.3476	1.2000e-004	0.0000	2.3501
<b>Total</b>	<b>8.8000e-004</b>	<b>1.2100e-003</b>	<b>0.0121</b>	<b>3.0000e-005</b>	<b>2.4500e-003</b>	<b>2.0000e-005</b>	<b>2.4700e-003</b>	<b>6.5000e-004</b>	<b>2.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.3476</b>	<b>2.3476</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.3501</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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0726	0.7763	0.5910	5.9000e-004		0.0413	0.0413		0.0380	0.0380	0.0000	54.4730	54.4730	0.0167	0.0000	54.8235
<b>Total</b>	<b>0.0726</b>	<b>0.7763</b>	<b>0.5910</b>	<b>5.9000e-004</b>	<b>0.2710</b>	<b>0.0413</b>	<b>0.3123</b>	<b>0.1490</b>	<b>0.0380</b>	<b>0.1870</b>	<b>0.0000</b>	<b>54.4730</b>	<b>54.4730</b>	<b>0.0167</b>	<b>0.0000</b>	<b>54.8235</b>



### 3.3 Site Preparation - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	8.8000e-004	1.2100e-003	0.0121	3.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3476	2.3476	1.2000e-004	0.0000	2.3501
<b>Total</b>	<b>8.8000e-004</b>	<b>1.2100e-003</b>	<b>0.0121</b>	<b>3.0000e-005</b>	<b>2.4500e-003</b>	<b>2.0000e-005</b>	<b>2.4700e-003</b>	<b>6.5000e-004</b>	<b>2.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.3476</b>	<b>2.3476</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.3501</b>

### 3.4 Grading - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2287	2.6097	1.7552	2.3100e-003		0.1244	0.1244		0.1144	0.1144	0.0000	214.7772	214.7772	0.0658	0.0000	216.1592
<b>Total</b>	<b>0.2287</b>	<b>2.6097</b>	<b>1.7552</b>	<b>2.3100e-003</b>	<b>0.3253</b>	<b>0.1244</b>	<b>0.4496</b>	<b>0.1349</b>	<b>0.1144</b>	<b>0.2493</b>	<b>0.0000</b>	<b>214.7772</b>	<b>214.7772</b>	<b>0.0658</b>	<b>0.0000</b>	<b>216.1592</b>

### 3.4 Grading - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.4400e-003	3.3600e-003	0.0336	9.0000e-005	6.8000e-003	6.0000e-005	6.8600e-003	1.8100e-003	6.0000e-005	1.8700e-003	0.0000	6.5211	6.5211	3.3000e-004	0.0000	6.5281
<b>Total</b>	<b>2.4400e-003</b>	<b>3.3600e-003</b>	<b>0.0336</b>	<b>9.0000e-005</b>	<b>6.8000e-003</b>	<b>6.0000e-005</b>	<b>6.8600e-003</b>	<b>1.8100e-003</b>	<b>6.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>6.5211</b>	<b>6.5211</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>6.5281</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					0.3253	0.0000	0.3253	0.1349	0.0000	0.1349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2287	2.6097	1.7552	2.3100e-003		0.1244	0.1244		0.1144	0.1144	0.0000	214.7770	214.7770	0.0658	0.0000	216.1589
<b>Total</b>	<b>0.2287</b>	<b>2.6097</b>	<b>1.7552</b>	<b>2.3100e-003</b>	<b>0.3253</b>	<b>0.1244</b>	<b>0.4496</b>	<b>0.1349</b>	<b>0.1144</b>	<b>0.2493</b>	<b>0.0000</b>	<b>214.7770</b>	<b>214.7770</b>	<b>0.0658</b>	<b>0.0000</b>	<b>216.1589</b>

### 3.4 Grading - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.4400e-003	3.3600e-003	0.0336	9.0000e-005	6.8000e-003	6.0000e-005	6.8600e-003	1.8100e-003	6.0000e-005	1.8700e-003	0.0000	6.5211	6.5211	3.3000e-004	0.0000	6.5281
<b>Total</b>	<b>2.4400e-003</b>	<b>3.3600e-003</b>	<b>0.0336</b>	<b>9.0000e-005</b>	<b>6.8000e-003</b>	<b>6.0000e-005</b>	<b>6.8600e-003</b>	<b>1.8100e-003</b>	<b>6.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>6.5211</b>	<b>6.5211</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>6.5281</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1629	1.3863	0.9518	1.4100e-003		0.0935	0.0935		0.0878	0.0878	0.0000	125.7265	125.7265	0.0309	0.0000	126.3763
<b>Total</b>	<b>0.1629</b>	<b>1.3863</b>	<b>0.9518</b>	<b>1.4100e-003</b>		<b>0.0935</b>	<b>0.0935</b>		<b>0.0878</b>	<b>0.0878</b>	<b>0.0000</b>	<b>125.7265</b>	<b>125.7265</b>	<b>0.0309</b>	<b>0.0000</b>	<b>126.3763</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.1428	0.9710	1.8966	2.5100e-003	0.0698	0.0135	0.0833	0.0200	0.0124	0.0324	0.0000	223.4832	223.4832	1.7100e-003	0.0000	223.5191
Worker	0.1295	0.1778	1.7820	4.7100e-003	0.3605	3.2000e-003	0.3637	0.0959	2.9500e-003	0.0989	0.0000	345.5547	345.5547	0.0176	0.0000	345.9243
<b>Total</b>	<b>0.2723</b>	<b>1.1488</b>	<b>3.6786</b>	<b>7.2200e-003</b>	<b>0.4303</b>	<b>0.0167</b>	<b>0.4470</b>	<b>0.1159</b>	<b>0.0153</b>	<b>0.1312</b>	<b>0.0000</b>	<b>569.0379</b>	<b>569.0379</b>	<b>0.0193</b>	<b>0.0000</b>	<b>569.4434</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	0.1629	1.3863	0.9518	1.4100e-003		0.0935	0.0935		0.0878	0.0878	0.0000	125.7264	125.7264	0.0309	0.0000	126.3762
<b>Total</b>	<b>0.1629</b>	<b>1.3863</b>	<b>0.9518</b>	<b>1.4100e-003</b>		<b>0.0935</b>	<b>0.0935</b>		<b>0.0878</b>	<b>0.0878</b>	<b>0.0000</b>	<b>125.7264</b>	<b>125.7264</b>	<b>0.0309</b>	<b>0.0000</b>	<b>126.3762</b>

### 3.5 Building Construction - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	0.1428	0.9710	1.8966	2.5100e-003	0.0698	0.0135	0.0833	0.0200	0.0124	0.0324	0.0000	223.4832	223.4832	1.7100e-003	0.0000	223.5191
Worker	0.1295	0.1778	1.7820	4.7100e-003	0.3605	3.2000e-003	0.3637	0.0959	2.9500e-003	0.0989	0.0000	345.5547	345.5547	0.0176	0.0000	345.9243
<b>Total</b>	<b>0.2723</b>	<b>1.1488</b>	<b>3.6786</b>	<b>7.2200e-003</b>	<b>0.4303</b>	<b>0.0167</b>	<b>0.4470</b>	<b>0.1159</b>	<b>0.0153</b>	<b>0.1312</b>	<b>0.0000</b>	<b>569.0379</b>	<b>569.0379</b>	<b>0.0193</b>	<b>0.0000</b>	<b>569.4434</b>

### 3.5 Building Construction - 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	0.3483	3.0355	2.2880	3.5000e-003		0.1950	0.1950		0.1833	0.1833	0.0000	308.9844	308.9844	0.0756	0.0000	310.5723
<b>Total</b>	<b>0.3483</b>	<b>3.0355</b>	<b>2.2880</b>	<b>3.5000e-003</b>		<b>0.1950</b>	<b>0.1950</b>		<b>0.1833</b>	<b>0.1833</b>	<b>0.0000</b>	<b>308.9844</b>	<b>308.9844</b>	<b>0.0756</b>	<b>0.0000</b>	<b>310.5723</b>

### 3.5 Building Construction - 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	0.2774	2.1857	4.1216	6.1900e-003	0.1735	0.0307	0.2041	0.0497	0.0282	0.0779	0.0000	543.6593	543.6593	4.1500e-003	0.0000	543.7465
Worker	0.2935	0.4029	4.0343	0.0117	0.8961	7.8000e-003	0.9039	0.2384	7.2200e-003	0.2456	0.0000	827.1533	827.1533	0.0408	0.0000	828.0092
<b>Total</b>	<b>0.5709</b>	<b>2.5886</b>	<b>8.1559</b>	<b>0.0179</b>	<b>1.0696</b>	<b>0.0385</b>	<b>1.1080</b>	<b>0.2881</b>	<b>0.0354</b>	<b>0.3235</b>	<b>0.0000</b>	<b>1,370.8126</b>	<b>1,370.8126</b>	<b>0.0449</b>	<b>0.0000</b>	<b>1,371.7558</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	0.3483	3.0355	2.2880	3.5000e-003		0.1950	0.1950		0.1833	0.1833	0.0000	308.9841	308.9841	0.0756	0.0000	310.5720
<b>Total</b>	<b>0.3483</b>	<b>3.0355</b>	<b>2.2880</b>	<b>3.5000e-003</b>		<b>0.1950</b>	<b>0.1950</b>		<b>0.1833</b>	<b>0.1833</b>	<b>0.0000</b>	<b>308.9841</b>	<b>308.9841</b>	<b>0.0756</b>	<b>0.0000</b>	<b>310.5720</b>

### 3.5 Building Construction - 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	0.2774	2.1857	4.1216	6.1900e-003	0.1735	0.0307	0.2041	0.0497	0.0282	0.0779	0.0000	543.6593	543.6593	4.1500e-003	0.0000	543.7465
Worker	0.2935	0.4029	4.0343	0.0117	0.8961	7.8000e-003	0.9039	0.2384	7.2200e-003	0.2456	0.0000	827.1533	827.1533	0.0408	0.0000	828.0092
<b>Total</b>	<b>0.5709</b>	<b>2.5886</b>	<b>8.1559</b>	<b>0.0179</b>	<b>1.0696</b>	<b>0.0385</b>	<b>1.1080</b>	<b>0.2881</b>	<b>0.0354</b>	<b>0.3235</b>	<b>0.0000</b>	<b>1,370.8126</b>	<b>1,370.8126</b>	<b>0.0449</b>	<b>0.0000</b>	<b>1,371.7558</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	0.3069	2.7359	2.2342	3.5000e-003		0.1677	0.1677		0.1577	0.1577	0.0000	305.5302	305.5302	0.0743	0.0000	307.0913
<b>Total</b>	<b>0.3069</b>	<b>2.7359</b>	<b>2.2342</b>	<b>3.5000e-003</b>		<b>0.1677</b>	<b>0.1677</b>		<b>0.1577</b>	<b>0.1577</b>	<b>0.0000</b>	<b>305.5302</b>	<b>305.5302</b>	<b>0.0743</b>	<b>0.0000</b>	<b>307.0913</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
Vendor	0.2661	2.0090	4.0139	6.2100e-003	0.1736	0.0286	0.2021	0.0497	0.0263	0.0760	0.0000	536.3290	536.3290	4.0700e-003	0.0000	536.4146
Worker	0.2698	0.3695	3.6971	0.0117	0.8961	7.7100e-003	0.9038	0.2384	7.1500e-003	0.2455	0.0000	797.2860	797.2860	0.0382	0.0000	798.0887
<b>Total</b>	<b>0.5359</b>	<b>2.3785</b>	<b>7.7110</b>	<b>0.0179</b>	<b>1.0697</b>	<b>0.0363</b>	<b>1.1060</b>	<b>0.2881</b>	<b>0.0334</b>	<b>0.3215</b>	<b>0.0000</b>	<b>1,333.6150</b>	<b>1,333.6150</b>	<b>0.0423</b>	<b>0.0000</b>	<b>1,334.5033</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	0.3069	2.7359	2.2342	3.5000e-003		0.1677	0.1677		0.1577	0.1577	0.0000	305.5299	305.5299	0.0743	0.0000	307.0909
<b>Total</b>	<b>0.3069</b>	<b>2.7359</b>	<b>2.2342</b>	<b>3.5000e-003</b>		<b>0.1677</b>	<b>0.1677</b>		<b>0.1577</b>	<b>0.1577</b>	<b>0.0000</b>	<b>305.5299</b>	<b>305.5299</b>	<b>0.0743</b>	<b>0.0000</b>	<b>307.0909</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
Vendor	0.2661	2.0090	4.0139	6.2100e-003	0.1736	0.0286	0.2021	0.0497	0.0263	0.0760	0.0000	536.3290	536.3290	4.0700e-003	0.0000	536.4146
Worker	0.2698	0.3695	3.6971	0.0117	0.8961	7.7100e-003	0.9038	0.2384	7.1500e-003	0.2455	0.0000	797.2860	797.2860	0.0382	0.0000	798.0887
<b>Total</b>	<b>0.5359</b>	<b>2.3785</b>	<b>7.7110</b>	<b>0.0179</b>	<b>1.0697</b>	<b>0.0363</b>	<b>1.1060</b>	<b>0.2881</b>	<b>0.0334</b>	<b>0.3215</b>	<b>0.0000</b>	<b>1,333.6150</b>	<b>1,333.6150</b>	<b>0.0423</b>	<b>0.0000</b>	<b>1,334.5033</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	0.1193	1.0782	0.9497	1.5100e-003		0.0629	0.0629		0.0591	0.0591	0.0000	130.3172	130.3172	0.0318	0.0000	130.9839
<b>Total</b>	<b>0.1193</b>	<b>1.0782</b>	<b>0.9497</b>	<b>1.5100e-003</b>		<b>0.0629</b>	<b>0.0629</b>		<b>0.0591</b>	<b>0.0591</b>	<b>0.0000</b>	<b>130.3172</b>	<b>130.3172</b>	<b>0.0318</b>	<b>0.0000</b>	<b>130.9839</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
Vendor	0.1037	0.7482	1.6443	2.6900e-003	0.0752	0.0110	0.0862	0.0215	0.0101	0.0317	0.0000	227.2623	227.2623	1.7100e-003	0.0000	227.2983
Worker	0.1094	0.1483	1.4873	5.0700e-003	0.3880	3.3300e-003	0.3913	0.1032	3.0900e-003	0.1063	0.0000	331.2584	331.2584	0.0157	0.0000	331.5877
<b>Total</b>	<b>0.2131</b>	<b>0.8965</b>	<b>3.1316</b>	<b>7.7600e-003</b>	<b>0.4631</b>	<b>0.0144</b>	<b>0.4775</b>	<b>0.1247</b>	<b>0.0132</b>	<b>0.1380</b>	<b>0.0000</b>	<b>558.5207</b>	<b>558.5207</b>	<b>0.0174</b>	<b>0.0000</b>	<b>558.8860</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	0.1193	1.0782	0.9497	1.5100e-003		0.0629	0.0629		0.0591	0.0591	0.0000	130.3170	130.3170	0.0318	0.0000	130.9838
<b>Total</b>	<b>0.1193</b>	<b>1.0782</b>	<b>0.9497</b>	<b>1.5100e-003</b>		<b>0.0629</b>	<b>0.0629</b>		<b>0.0591</b>	<b>0.0591</b>	<b>0.0000</b>	<b>130.3170</b>	<b>130.3170</b>	<b>0.0318</b>	<b>0.0000</b>	<b>130.9838</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	0.1037	0.7482	1.6443	2.6900e-003	0.0752	0.0110	0.0862	0.0215	0.0101	0.0317	0.0000	227.2623	227.2623	1.7100e-003	0.0000	227.2983
Worker	0.1094	0.1483	1.4873	5.0700e-003	0.3880	3.3300e-003	0.3913	0.1032	3.0900e-003	0.1063	0.0000	331.2584	331.2584	0.0157	0.0000	331.5877
<b>Total</b>	<b>0.2131</b>	<b>0.8965</b>	<b>3.1316</b>	<b>7.7600e-003</b>	<b>0.4631</b>	<b>0.0144</b>	<b>0.4775</b>	<b>0.1247</b>	<b>0.0132</b>	<b>0.1380</b>	<b>0.0000</b>	<b>558.5207</b>	<b>558.5207</b>	<b>0.0174</b>	<b>0.0000</b>	<b>558.8860</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	0.0366	0.3791	0.3947	6.1000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	53.9057	53.9057	0.0174	0.0000	54.2718
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0366</b>	<b>0.3791</b>	<b>0.3947</b>	<b>6.1000e-004</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0187</b>	<b>0.0187</b>	<b>0.0000</b>	<b>53.9057</b>	<b>53.9057</b>	<b>0.0174</b>	<b>0.0000</b>	<b>54.2718</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	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	1.0600e-003	1.4300e-003	0.0143	5.0000e-005	3.7400e-003	3.0000e-005	3.7700e-003	1.0000e-003	3.0000e-005	1.0300e-003	0.0000	3.1948	3.1948	1.5000e-004	0.0000	3.1980	
<b>Total</b>	<b>1.0600e-003</b>	<b>1.4300e-003</b>	<b>0.0143</b>	<b>5.0000e-005</b>	<b>3.7400e-003</b>	<b>3.0000e-005</b>	<b>3.7700e-003</b>	<b>1.0000e-003</b>	<b>3.0000e-005</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.1948</b>	<b>3.1948</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>3.1980</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	0.0366	0.3791	0.3947	6.1000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	53.9056	53.9056	0.0174	0.0000	54.2717
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0366</b>	<b>0.3791</b>	<b>0.3947</b>	<b>6.1000e-004</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0187</b>	<b>0.0187</b>	<b>0.0000</b>	<b>53.9056</b>	<b>53.9056</b>	<b>0.0174</b>	<b>0.0000</b>	<b>54.2717</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
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	1.0600e-003	1.4300e-003	0.0143	5.0000e-005	3.7400e-003	3.0000e-005	3.7700e-003	1.0000e-003	3.0000e-005	1.0300e-003	0.0000	3.1948	3.1948	1.5000e-004	0.0000	3.1980
<b>Total</b>	<b>1.0600e-003</b>	<b>1.4300e-003</b>	<b>0.0143</b>	<b>5.0000e-005</b>	<b>3.7400e-003</b>	<b>3.0000e-005</b>	<b>3.7700e-003</b>	<b>1.0000e-003</b>	<b>3.0000e-005</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.1948</b>	<b>3.1948</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>3.1980</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	8.4395					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6600e-003	0.0463	0.0504	8.0000e-005		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	7.0215	7.0215	5.4000e-004	0.0000	7.0329
<b>Total</b>	<b>8.4462</b>	<b>0.0463</b>	<b>0.0504</b>	<b>8.0000e-005</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>	<b>0.0000</b>	<b>7.0215</b>	<b>7.0215</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>7.0329</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	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	0.0106	0.0144	0.1444	4.9000e-004	0.0377	3.2000e-004	0.0380	0.0100	3.0000e-004	0.0103	0.0000	32.1612	32.1612	1.5200e-003	0.0000	32.1932	
<b>Total</b>	<b>0.0106</b>	<b>0.0144</b>	<b>0.1444</b>	<b>4.9000e-004</b>	<b>0.0377</b>	<b>3.2000e-004</b>	<b>0.0380</b>	<b>0.0100</b>	<b>3.0000e-004</b>	<b>0.0103</b>	<b>0.0000</b>	<b>32.1612</b>	<b>32.1612</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>32.1932</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	8.4395					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6600e-003	0.0463	0.0504	8.0000e-005		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	7.0214	7.0214	5.4000e-004	0.0000	7.0329
<b>Total</b>	<b>8.4462</b>	<b>0.0463</b>	<b>0.0504</b>	<b>8.0000e-005</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>		<b>3.0500e-003</b>	<b>3.0500e-003</b>	<b>0.0000</b>	<b>7.0214</b>	<b>7.0214</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>7.0329</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	0.0106	0.0144	0.1444	4.9000e-004	0.0377	3.2000e-004	0.0380	0.0100	3.0000e-004	0.0103	0.0000	32.1612	32.1612	1.5200e-003	0.0000	32.1932
<b>Total</b>	<b>0.0106</b>	<b>0.0144</b>	<b>0.1444</b>	<b>4.9000e-004</b>	<b>0.0377</b>	<b>3.2000e-004</b>	<b>0.0380</b>	<b>0.0100</b>	<b>3.0000e-004</b>	<b>0.0103</b>	<b>0.0000</b>	<b>32.1612</b>	<b>32.1612</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>32.1932</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	2.6326	5.8427	26.0507	0.0560	3.8905	0.0898	3.9803	1.0550	0.0826	1.1376	0.0000	4,412.8966	4,412.8966	0.1896	0.0000	4,416.8771
Unmitigated	2.6326	5.8427	26.0507	0.0560	3.8905	0.0898	3.9803	1.0550	0.0826	1.1376	0.0000	4,412.8966	4,412.8966	0.1896	0.0000	4,416.8771

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Junior College (2Yr)	5,456.64	1,091.33	0.00	10,294,023	10,294,023
<b>Total</b>	<b>5,456.64</b>	<b>1,091.33</b>	<b>0.00</b>	<b>10,294,023</b>	<b>10,294,023</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
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.628026	0.058431	0.149152	0.079214	0.026557	0.003351	0.026114	0.003803	0.003113	0.011024	0.010157	0.000551	0.000507

### 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	3,338.3353	3,338.3353	0.1510	0.0312	3,351.1869
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,338.3353	3,338.3353	0.1510	0.0312	3,351.1869
NaturalGas Mitigated	0.1568	1.4149	1.1208	8.5500e-003		0.1083	0.1083		0.1083	0.1083	0.0000	1,551.5758	1,551.5758	0.0297	0.0285	1,561.0184
NaturalGas Unmitigated	0.1568	1.4149	1.1208	8.5500e-003		0.1083	0.1083		0.1083	0.1083	0.0000	1,551.5758	1,551.5758	0.0297	0.0285	1,561.0184

**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					
Apartments Mid Rise	3.54201e+006	0.0191	0.1632	0.0695	1.0400e-003		0.0132	0.0132		0.0132	0.0132	0.0000	189.0152	189.0152	3.6200e-003	3.4700e-003	190.1655
Junior College (2Yr)	2.55334e+007	0.1377	1.2516	1.0514	7.5100e-003		0.0951	0.0951		0.0951	0.0951	0.0000	1,362.5606	1,362.5606	0.0261	0.0250	1,370.8529
<b>Total</b>		<b>0.1568</b>	<b>1.4149</b>	<b>1.1208</b>	<b>8.5500e-003</b>		<b>0.1083</b>	<b>0.1083</b>		<b>0.1083</b>	<b>0.1083</b>	<b>0.0000</b>	<b>1,551.5758</b>	<b>1,551.5758</b>	<b>0.0297</b>	<b>0.0285</b>	<b>1,561.0184</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					
Apartments Mid Rise	3.54201e+006	0.0191	0.1632	0.0695	1.0400e-003		0.0132	0.0132		0.0132	0.0132	0.0000	189.0152	189.0152	3.6200e-003	3.4700e-003	190.1655
Junior College (2Yr)	2.55334e+007	0.1377	1.2516	1.0514	7.5100e-003		0.0951	0.0951		0.0951	0.0951	0.0000	1,362.5606	1,362.5606	0.0261	0.0250	1,370.8529
<b>Total</b>		<b>0.1568</b>	<b>1.4149</b>	<b>1.1208</b>	<b>8.5500e-003</b>		<b>0.1083</b>	<b>0.1083</b>		<b>0.1083</b>	<b>0.1083</b>	<b>0.0000</b>	<b>1,551.5758</b>	<b>1,551.5758</b>	<b>0.0297</b>	<b>0.0285</b>	<b>1,561.0184</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.77574e+006	516.5845	0.0234	4.8300e-003	518.5732
Junior College (2Yr)	9.69969e+006	2,821.7508	0.1276	0.0264	2,832.6137
<b>Total</b>		<b>3,338.3353</b>	<b>0.1510</b>	<b>0.0312</b>	<b>3,351.1869</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.77574e+006	516.5845	0.0234	4.8300e-003	518.5732
Junior College (2Yr)	9.69969e+006	2,821.7508	0.1276	0.0264	2,832.6137
<b>Total</b>		<b>3,338.3353</b>	<b>0.1510</b>	<b>0.0312</b>	<b>3,351.1869</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	6.7077	0.0443	3.7882	2.0000e-004		0.0204	0.0204		0.0204	0.0204	0.0000	6.1055	6.1055	6.2500e-003	0.0000	6.2368
Unmitigated	6.7077	0.0443	3.7882	2.0000e-004		0.0204	0.0204		0.0204	0.0204	0.0000	6.1055	6.1055	6.2500e-003	0.0000	6.2368

## 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	0.9530					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.6349					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1199	0.0443	3.7882	2.0000e-004		0.0204	0.0204		0.0204	0.0204	0.0000	6.1055	6.1055	6.2500e-003	0.0000	6.2368
<b>Total</b>	<b>6.7077</b>	<b>0.0443</b>	<b>3.7882</b>	<b>2.0000e-004</b>		<b>0.0204</b>	<b>0.0204</b>		<b>0.0204</b>	<b>0.0204</b>	<b>0.0000</b>	<b>6.1055</b>	<b>6.1055</b>	<b>6.2500e-003</b>	<b>0.0000</b>	<b>6.2368</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	0.9530					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.6349					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1199	0.0443	3.7882	2.0000e-004		0.0204	0.0204		0.0204	0.0204	0.0000	6.1055	6.1055	6.2500e-003	0.0000	6.2368
<b>Total</b>	<b>6.7077</b>	<b>0.0443</b>	<b>3.7882</b>	<b>2.0000e-004</b>		<b>0.0204</b>	<b>0.0204</b>		<b>0.0204</b>	<b>0.0204</b>	<b>0.0000</b>	<b>6.1055</b>	<b>6.1055</b>	<b>6.2500e-003</b>	<b>0.0000</b>	<b>6.2368</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	243.6238	2.5788	0.0626	317.1907
Unmitigated	243.6238	2.5793	0.0627	317.2306

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	32.7073 / 20.6198	82.8568	1.0691	0.0258	113.3181
Junior College (2Yr)	46.1453 / 72.176	160.7671	1.5103	0.0369	203.9125
<b>Total</b>		<b>243.6238</b>	<b>2.5793</b>	<b>0.0627</b>	<b>317.2306</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	32.7073 / 20.6198	82.8568	1.0689	0.0258	113.3015
Junior College (2Yr)	46.1453 / 72.176	160.7671	1.5100	0.0368	203.8892
<b>Total</b>		<b>243.6238</b>	<b>2.5788</b>	<b>0.0626</b>	<b>317.1907</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	295.1407	17.4423	0.0000	661.4294
Unmitigated	295.1407	17.4423	0.0000	661.4294

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	230.92	46.8747	2.7702	0.0000	105.0492
Junior College (2Yr)	1223.04	248.2661	14.6721	0.0000	556.3803
<b>Total</b>		<b>295.1407</b>	<b>17.4423</b>	<b>0.0000</b>	<b>661.4294</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	230.92	46.8747	2.7702	0.0000	105.0492
Junior College (2Yr)	1223.04	248.2661	14.6721	0.0000	556.3803
<b>Total</b>		<b>295.1407</b>	<b>17.4423</b>	<b>0.0000</b>	<b>661.4294</b>

## 9.0 Operational Offroad

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

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