

# **Paseo Colorado Redevelopment Project**

**Initial Study/Mitigated Negative Declaration**

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## **Appendix F Greenhouse Gas Worksheets**



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**BUSINESS AS USUAL GREENHOUSE GAS  
EMISSIONS**

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**Paseo Colorado Project**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	179.00	Room	5.97	259,908.00	0
Apartments High Rise	100.00	Dwelling Unit	1.61	100,000.00	286
Strip Mall	31.00	1000sqft	0.71	31,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2005
<b>Utility Company</b>	Pasadena Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1409.65	<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 - Emission factor per The Climate Registry

Land Use - glitch

Construction Phase - Building construction, paving, and painting assumed to occur simultaneously

Trips and VMT - 985 hauling trips during demolition

Demolition -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Trip generation per Traffic Impact Assessment

Energy Use - glitch

Water And Wastewater - Water use = 26,577,840 gallons annually

Solid Waste - Solid waste = 258 tons annually

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblConstructionPhase	NumDays	20.00	230.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	230.00
tblConstructionPhase	PhaseEndDate	12/1/2006	1/13/2006
tblConstructionPhase	PhaseEndDate	12/1/2006	1/13/2006
tblConstructionPhase	PhaseStartDate	1/14/2006	2/26/2005
tblConstructionPhase	PhaseStartDate	1/14/2006	2/26/2005
tblProjectCharacteristics	CO2IntensityFactor	1664.14	1409.65
tblProjectCharacteristics	OperationalYear	2014	2005
tblSolidWaste	SolidWasteGenerationRate	46.00	86.00
tblSolidWaste	SolidWasteGenerationRate	98.00	86.00
tblSolidWaste	SolidWasteGenerationRate	32.55	86.00

tblTripsAndVMT	HaulingTripNumber	779.00	985.00
tblVehicleTrips	ST_TR	7.16	6.59
tblVehicleTrips	ST_TR	8.19	8.17
tblVehicleTrips	ST_TR	42.04	24.06
tblVehicleTrips	SU_TR	6.07	6.59
tblVehicleTrips	SU_TR	5.95	8.17
tblVehicleTrips	SU_TR	20.43	24.06
tblVehicleTrips	WD_TR	44.32	24.06
tblWater	IndoorWaterUseRate	6,515,402.56	4,429,640.00
tblWater	IndoorWaterUseRate	4,540,651.83	4,429,640.00
tblWater	IndoorWaterUseRate	2,296,248.17	4,429,640.00
tblWater	OutdoorWaterUseRate	4,107,536.40	4,429,640.00
tblWater	OutdoorWaterUseRate	504,516.87	4,429,640.00
tblWater	OutdoorWaterUseRate	1,407,377.91	4,429,640.00

## 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					
2005	4.4646	13.4870	11.9608	0.0945	0.4912	0.8919	1.3830	0.1581	0.8919	1.0500	0.0000	1,213.7446	1,213.7446	0.1912	0.0000	1,217.7605
2006	0.1913	0.5315	0.4946	3.7600e-003	0.0139	0.0360	0.0499	4.1700e-003	0.0360	0.0402	0.0000	49.5994	49.5994	7.9500e-003	0.0000	49.7662
<b>Total</b>	<b>4.6559</b>	<b>14.0185</b>	<b>12.4554</b>	<b>0.0983</b>	<b>0.5050</b>	<b>0.9279</b>	<b>1.4330</b>	<b>0.1623</b>	<b>0.9279</b>	<b>1.0902</b>	<b>0.0000</b>	<b>1,263.3439</b>	<b>1,263.3439</b>	<b>0.1992</b>	<b>0.0000</b>	<b>1,267.5268</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					
2005	4.4626	13.4742	11.9548	0.0945	0.6757	0.8909	1.5667	0.2034	0.8909	1.0943	0.0000	1,212.9631	1,212.9631	0.1911	0.0000	1,216.9756
2006	0.1912	0.5310	0.4943	3.7500e-003	0.0139	0.0360	0.0499	4.1700e-003	0.0360	0.0402	0.0000	49.5683	49.5683	7.9400e-003	0.0000	49.7350
<b>Total</b>	<b>4.6538</b>	<b>14.0052</b>	<b>12.4491</b>	<b>0.0982</b>	<b>0.6896</b>	<b>0.9269</b>	<b>1.6165</b>	<b>0.2076</b>	<b>0.9269</b>	<b>1.1345</b>	<b>0.0000</b>	<b>1,262.5314</b>	<b>1,262.5314</b>	<b>0.1990</b>	<b>0.0000</b>	<b>1,266.7106</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>0.0451</b>	<b>0.0954</b>	<b>0.0506</b>	<b>0.1017</b>	<b>-36.5436</b>	<b>0.1035</b>	<b>-12.8120</b>	<b>-27.9199</b>	<b>0.1035</b>	<b>-4.0664</b>	<b>0.0000</b>	<b>0.0643</b>	<b>0.0643</b>	<b>0.0904</b>	<b>0.0000</b>	<b>0.0644</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	2.2154	0.0246	1.8277	1.0500e-003		0.1006	0.1006		0.1005	0.1005	10.6219	22.1014	32.7233	0.0344	7.2000e-004	33.6692
Energy	0.0407	0.3671	0.2894	2.2200e-003		0.0281	0.0281		0.0281	0.0281	0.0000	2,342.5285	2,342.5285	0.0476	0.0156	2,348.3772
Mobile	12.0142	11.6559	54.7507	0.0846	2.4620	0.3735	2.8355	0.7165	0.3735	1.0900	0.0000	3,895.2451	3,895.2451	0.3773	0.0000	3,903.1673
Waste						0.0000	0.0000		0.0000	0.0000	52.3717	0.0000	52.3717	3.0951	0.0000	117.3683
Water						0.0000	0.0000		0.0000	0.0000	4.2160	205.0416	209.2576	0.4372	0.0111	221.8797
<b>Total</b>	<b>14.2703</b>	<b>12.0475</b>	<b>56.8679</b>	<b>0.0879</b>	<b>2.4620</b>	<b>0.5022</b>	<b>2.9642</b>	<b>0.7165</b>	<b>0.5022</b>	<b>1.2187</b>	<b>67.2095</b>	<b>6,464.9166</b>	<b>6,532.1262</b>	<b>3.9916</b>	<b>0.0275</b>	<b>6,624.4617</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	2.2154	0.0246	1.8277	1.0500e-003		0.1006	0.1006		0.1005	0.1005	10.6219	22.1014	32.7233	0.0344	7.2000e-004	33.6692
Energy	0.0407	0.3671	0.2894	2.2200e-003		0.0281	0.0281		0.0281	0.0281	0.0000	2,342.5285	2,342.5285	0.0476	0.0156	2,348.3772
Mobile	12.0142	11.6559	54.7507	0.0846	2.4620	0.3735	2.8355	0.7165	0.3735	1.0900	0.0000	3,895.2451	3,895.2451	0.3773	0.0000	3,903.1673
Waste						0.0000	0.0000		0.0000	0.0000	52.3717	0.0000	52.3717	3.0951	0.0000	117.3683
Water						0.0000	0.0000		0.0000	0.0000	4.2160	205.0416	209.2576	0.4372	0.0111	221.8730
<b>Total</b>	<b>14.2703</b>	<b>12.0475</b>	<b>56.8679</b>	<b>0.0879</b>	<b>2.4620</b>	<b>0.5022</b>	<b>2.9642</b>	<b>0.7165</b>	<b>0.5022</b>	<b>1.2187</b>	<b>67.2095</b>	<b>6,464.9166</b>	<b>6,532.1262</b>	<b>3.9915</b>	<b>0.0274</b>	<b>6,624.4549</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.0042e-003	0.0728	1.0159e-004

## 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	1/1/2005	2/11/2005	5	30	
2	Site Preparation	Site Preparation	2/12/2005	2/25/2005	5	10	
3	Building Construction	Building Construction	2/26/2005	1/13/2006	5	230	
4	Paving	Paving	2/26/2005	1/13/2006	5	230	
5	Architectural Coating	Architectural Coating	2/26/2005	1/13/2006	5	230	

### 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
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	985.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	191.00	58.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	38.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2005

#### Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0843	0.0000	0.0843	0.0128	0.0000	0.0128	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1233	0.9804	0.5104	6.4200e-003		0.0542	0.0542		0.0542	0.0542	0.0000	61.0776	61.0776	0.0101	0.0000	61.2887
<b>Total</b>	<b>0.1233</b>	<b>0.9804</b>	<b>0.5104</b>	<b>6.4200e-003</b>	<b>0.0843</b>	<b>0.0542</b>	<b>0.1385</b>	<b>0.0128</b>	<b>0.0542</b>	<b>0.0670</b>	<b>0.0000</b>	<b>61.0776</b>	<b>61.0776</b>	<b>0.0101</b>	<b>0.0000</b>	<b>61.2887</b>

### 3.2 Demolition - 2005

#### Unmitigated Construction Off-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0738	0.4704	0.3178	3.2800e-003	7.7300e-003	0.0243	0.0321	2.9300e-003	0.0243	0.0273	0.0000	36.7294	36.7294	2.2900e-003	0.0000	36.7774
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0105	4.1100e-003	0.0425	3.0000e-005	2.2900e-003	1.2000e-004	2.4100e-003	6.8000e-004	1.2000e-004	7.9000e-004	0.0000	3.0806	3.0806	3.5000e-004	0.0000	3.0879
<b>Total</b>	<b>0.0842</b>	<b>0.4745</b>	<b>0.3604</b>	<b>3.3100e-003</b>	<b>0.0100</b>	<b>0.0245</b>	<b>0.0345</b>	<b>3.6100e-003</b>	<b>0.0245</b>	<b>0.0281</b>	<b>0.0000</b>	<b>39.8100</b>	<b>39.8100</b>	<b>2.6400e-003</b>	<b>0.0000</b>	<b>39.8653</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					0.0843	0.0000	0.0843	0.0128	0.0000	0.0128	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1232	0.9792	0.5098	6.4100e-003		0.0541	0.0541		0.0541	0.0541	0.0000	61.0049	61.0049	0.0100	0.0000	61.2158
<b>Total</b>	<b>0.1232</b>	<b>0.9792</b>	<b>0.5098</b>	<b>6.4100e-003</b>	<b>0.0843</b>	<b>0.0541</b>	<b>0.1384</b>	<b>0.0128</b>	<b>0.0541</b>	<b>0.0669</b>	<b>0.0000</b>	<b>61.0049</b>	<b>61.0049</b>	<b>0.0100</b>	<b>0.0000</b>	<b>61.2158</b>

**3.2 Demolition - 2005****Mitigated Construction Off-Site****Acres of Grading: 0**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0738	0.4704	0.3178	3.2800e-003	0.1923	0.0243	0.2166	0.0482	0.0243	0.0726	0.0000	36.7294	36.7294	2.2900e-003	0.0000	36.7774
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0105	4.1100e-003	0.0425	3.0000e-005	2.2900e-003	1.2000e-004	2.4100e-003	6.8000e-004	1.2000e-004	7.9000e-004	0.0000	3.0806	3.0806	3.5000e-004	0.0000	3.0879
<b>Total</b>	<b>0.0842</b>	<b>0.4745</b>	<b>0.3604</b>	<b>3.3100e-003</b>	<b>0.1946</b>	<b>0.0245</b>	<b>0.2190</b>	<b>0.0489</b>	<b>0.0245</b>	<b>0.0734</b>	<b>0.0000</b>	<b>39.8100</b>	<b>39.8100</b>	<b>2.6400e-003</b>	<b>0.0000</b>	<b>39.8653</b>

**3.3 Site Preparation - 2005****Unmitigated Construction On-Site****Acres of Grading: 0**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0443	0.3368	0.1926	2.1100e-003		0.0204	0.0204		0.0204	0.0204	0.0000	20.4388	20.4388	3.6100e-003	0.0000	20.5145
<b>Total</b>	<b>0.0443</b>	<b>0.3368</b>	<b>0.1926</b>	<b>2.1100e-003</b>	<b>0.0903</b>	<b>0.0204</b>	<b>0.1107</b>	<b>0.0497</b>	<b>0.0204</b>	<b>0.0701</b>	<b>0.0000</b>	<b>20.4388</b>	<b>20.4388</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>20.5145</b>

### 3.3 Site Preparation - 2005

#### Unmitigated Construction Off-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1900e-003	1.6400e-003	0.0170	1.0000e-005	9.2000e-004	5.0000e-005	9.6000e-004	2.7000e-004	5.0000e-005	3.2000e-004	0.0000	1.2323	1.2323	1.4000e-004	0.0000	1.2352
<b>Total</b>	<b>4.1900e-003</b>	<b>1.6400e-003</b>	<b>0.0170</b>	<b>1.0000e-005</b>	<b>9.2000e-004</b>	<b>5.0000e-005</b>	<b>9.6000e-004</b>	<b>2.7000e-004</b>	<b>5.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.2323</b>	<b>1.2323</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.2352</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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0442	0.3364	0.1924	2.1100e-003		0.0204	0.0204		0.0204	0.0204	0.0000	20.4145	20.4145	3.6000e-003	0.0000	20.4901
<b>Total</b>	<b>0.0442</b>	<b>0.3364</b>	<b>0.1924</b>	<b>2.1100e-003</b>	<b>0.0903</b>	<b>0.0204</b>	<b>0.1107</b>	<b>0.0497</b>	<b>0.0204</b>	<b>0.0700</b>	<b>0.0000</b>	<b>20.4145</b>	<b>20.4145</b>	<b>3.6000e-003</b>	<b>0.0000</b>	<b>20.4901</b>

### 3.3 Site Preparation - 2005

#### Mitigated Construction Off-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1900e-003	1.6400e-003	0.0170	1.0000e-005	9.2000e-004	5.0000e-005	9.6000e-004	2.7000e-004	5.0000e-005	3.2000e-004	0.0000	1.2323	1.2323	1.4000e-004	0.0000	1.2352
<b>Total</b>	<b>4.1900e-003</b>	<b>1.6400e-003</b>	<b>0.0170</b>	<b>1.0000e-005</b>	<b>9.2000e-004</b>	<b>5.0000e-005</b>	<b>9.6000e-004</b>	<b>2.7000e-004</b>	<b>5.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.2323</b>	<b>1.2323</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.2352</b>

### 3.4 Building Construction - 2005

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.8246	4.5389	2.2369	0.0333		0.3819	0.3819		0.3819	0.3819	0.0000	287.8781	287.8781	0.0673	0.0000	289.2915
<b>Total</b>	<b>0.8246</b>	<b>4.5389</b>	<b>2.2369</b>	<b>0.0333</b>		<b>0.3819</b>	<b>0.3819</b>		<b>0.3819</b>	<b>0.3819</b>	<b>0.0000</b>	<b>287.8781</b>	<b>287.8781</b>	<b>0.0673</b>	<b>0.0000</b>	<b>289.2915</b>



### 3.4 Building Construction - 2005

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2476	1.7082	1.4015	0.0129	0.0327	0.0698	0.1025	0.0113	0.0698	0.0811	0.0000	148.2844	148.2844	8.6100e-003	0.0000	148.4653
Worker	0.9780	0.3835	3.9724	3.2600e-003	0.2136	0.0110	0.2246	0.0630	0.0110	0.0741	0.0000	287.6618	287.6618	0.0323	0.0000	288.3390
<b>Total</b>	<b>1.2256</b>	<b>2.0917</b>	<b>5.3739</b>	<b>0.0162</b>	<b>0.2463</b>	<b>0.0808</b>	<b>0.3272</b>	<b>0.0743</b>	<b>0.0808</b>	<b>0.1551</b>	<b>0.0000</b>	<b>435.9462</b>	<b>435.9462</b>	<b>0.0409</b>	<b>0.0000</b>	<b>436.8043</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	0.8237	4.5335	2.2342	0.0333		0.3815	0.3815		0.3815	0.3815	0.0000	287.5357	287.5357	0.0672	0.0000	288.9473
<b>Total</b>	<b>0.8237</b>	<b>4.5335</b>	<b>2.2342</b>	<b>0.0333</b>		<b>0.3815</b>	<b>0.3815</b>		<b>0.3815</b>	<b>0.3815</b>	<b>0.0000</b>	<b>287.5357</b>	<b>287.5357</b>	<b>0.0672</b>	<b>0.0000</b>	<b>288.9473</b>

**3.4 Building Construction - 2005****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2476	1.7082	1.4015	0.0129	0.0327	0.0698	0.1025	0.0113	0.0698	0.0811	0.0000	148.2844	148.2844	8.6100e-003	0.0000	148.4653
Worker	0.9780	0.3835	3.9724	3.2600e-003	0.2136	0.0110	0.2246	0.0630	0.0110	0.0741	0.0000	287.6618	287.6618	0.0323	0.0000	288.3390
<b>Total</b>	<b>1.2256</b>	<b>2.0917</b>	<b>5.3739</b>	<b>0.0162</b>	<b>0.2463</b>	<b>0.0808</b>	<b>0.3272</b>	<b>0.0743</b>	<b>0.0808</b>	<b>0.1551</b>	<b>0.0000</b>	<b>435.9462</b>	<b>435.9462</b>	<b>0.0409</b>	<b>0.0000</b>	<b>436.8043</b>

**3.4 Building Construction - 2006****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0375	0.2063	0.1017	1.5100e-003		0.0174	0.0174		0.0174	0.0174	0.0000	13.0854	13.0854	3.0600e-003	0.0000	13.1496
<b>Total</b>	<b>0.0375</b>	<b>0.2063</b>	<b>0.1017</b>	<b>1.5100e-003</b>		<b>0.0174</b>	<b>0.0174</b>		<b>0.0174</b>	<b>0.0174</b>	<b>0.0000</b>	<b>13.0854</b>	<b>13.0854</b>	<b>3.0600e-003</b>	<b>0.0000</b>	<b>13.1496</b>

### 3.4 Building Construction - 2006

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.0776	0.0637	5.9000e-004	1.4900e-003	3.1700e-003	4.6600e-003	5.1000e-004	3.1700e-003	3.6800e-003	0.0000	6.7402	6.7402	3.9000e-004	0.0000	6.7484
Worker	0.0445	0.0174	0.1806	1.5000e-004	9.7100e-003	5.0000e-004	0.0102	2.8700e-003	5.0000e-004	3.3700e-003	0.0000	13.0755	13.0755	1.4700e-003	0.0000	13.1063
<b>Total</b>	<b>0.0557</b>	<b>0.0951</b>	<b>0.2443</b>	<b>7.4000e-004</b>	<b>0.0112</b>	<b>3.6700e-003</b>	<b>0.0149</b>	<b>3.3800e-003</b>	<b>3.6700e-003</b>	<b>7.0500e-003</b>	<b>0.0000</b>	<b>19.8157</b>	<b>19.8157</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>19.8547</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	0.0374	0.2061	0.1016	1.5100e-003		0.0173	0.0173		0.0173	0.0173	0.0000	13.0698	13.0698	3.0600e-003	0.0000	13.1340
<b>Total</b>	<b>0.0374</b>	<b>0.2061</b>	<b>0.1016</b>	<b>1.5100e-003</b>		<b>0.0173</b>	<b>0.0173</b>		<b>0.0173</b>	<b>0.0173</b>	<b>0.0000</b>	<b>13.0698</b>	<b>13.0698</b>	<b>3.0600e-003</b>	<b>0.0000</b>	<b>13.1340</b>

### 3.4 Building Construction - 2006

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.0776	0.0637	5.9000e-004	1.4900e-003	3.1700e-003	4.6600e-003	5.1000e-004	3.1700e-003	3.6800e-003	0.0000	6.7402	6.7402	3.9000e-004	0.0000	6.7484
Worker	0.0445	0.0174	0.1806	1.5000e-004	9.7100e-003	5.0000e-004	0.0102	2.8700e-003	5.0000e-004	3.3700e-003	0.0000	13.0755	13.0755	1.4700e-003	0.0000	13.1063
<b>Total</b>	<b>0.0557</b>	<b>0.0951</b>	<b>0.2443</b>	<b>7.4000e-004</b>	<b>0.0112</b>	<b>3.6700e-003</b>	<b>0.0149</b>	<b>3.3800e-003</b>	<b>3.6700e-003</b>	<b>7.0500e-003</b>	<b>0.0000</b>	<b>19.8157</b>	<b>19.8157</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>19.8547</b>

### 3.5 Paving - 2005

#### Unmitigated Construction On-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6241	4.4858	1.9387	0.0290		0.2847	0.2847		0.2847	0.2847	0.0000	259.4535	259.4535	0.0509	0.0000	260.5229
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>0.6241</b>	<b>4.4858</b>	<b>1.9387</b>	<b>0.0290</b>		<b>0.2847</b>	<b>0.2847</b>		<b>0.2847</b>	<b>0.2847</b>	<b>0.0000</b>	<b>259.4535</b>	<b>259.4535</b>	<b>0.0509</b>	<b>0.0000</b>	<b>260.5229</b>

### 3.5 Paving - 2005

#### Unmitigated Construction Off-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0768	0.0301	0.3120	2.6000e-004	0.0168	8.7000e-004	0.0176	4.9500e-003	8.7000e-004	5.8200e-003	0.0000	22.5912	22.5912	2.5300e-003	0.0000	22.6444
<b>Total</b>	<b>0.0768</b>	<b>0.0301</b>	<b>0.3120</b>	<b>2.6000e-004</b>	<b>0.0168</b>	<b>8.7000e-004</b>	<b>0.0176</b>	<b>4.9500e-003</b>	<b>8.7000e-004</b>	<b>5.8200e-003</b>	<b>0.0000</b>	<b>22.5912</b>	<b>22.5912</b>	<b>2.5300e-003</b>	<b>0.0000</b>	<b>22.6444</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	0.6234	4.4804	1.9364	0.0290		0.2844	0.2844		0.2844	0.2844	0.0000	259.1449	259.1449	0.0509	0.0000	260.2130
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>0.6234</b>	<b>4.4804</b>	<b>1.9364</b>	<b>0.0290</b>		<b>0.2844</b>	<b>0.2844</b>		<b>0.2844</b>	<b>0.2844</b>	<b>0.0000</b>	<b>259.1449</b>	<b>259.1449</b>	<b>0.0509</b>	<b>0.0000</b>	<b>260.2130</b>

### 3.5 Paving - 2005

#### Mitigated Construction Off-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0768	0.0301	0.3120	2.6000e-004	0.0168	8.7000e-004	0.0176	4.9500e-003	8.7000e-004	5.8200e-003	0.0000	22.5912	22.5912	2.5300e-003	0.0000	22.6444
<b>Total</b>	<b>0.0768</b>	<b>0.0301</b>	<b>0.3120</b>	<b>2.6000e-004</b>	<b>0.0168</b>	<b>8.7000e-004</b>	<b>0.0176</b>	<b>4.9500e-003</b>	<b>8.7000e-004</b>	<b>5.8200e-003</b>	<b>0.0000</b>	<b>22.5912</b>	<b>22.5912</b>	<b>2.5300e-003</b>	<b>0.0000</b>	<b>22.6444</b>

### 3.5 Paving - 2006

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0284	0.2039	0.0881	1.3200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	11.7933	11.7933	2.3100e-003	0.0000	11.8420
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>0.0284</b>	<b>0.2039</b>	<b>0.0881</b>	<b>1.3200e-003</b>		<b>0.0129</b>	<b>0.0129</b>		<b>0.0129</b>	<b>0.0129</b>	<b>0.0000</b>	<b>11.7933</b>	<b>11.7933</b>	<b>2.3100e-003</b>	<b>0.0000</b>	<b>11.8420</b>

### 3.5 Paving - 2006

#### Unmitigated Construction Off-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4900e-003	1.3700e-003	0.0142	1.0000e-005	7.6000e-004	4.0000e-005	8.0000e-004	2.3000e-004	4.0000e-005	2.6000e-004	0.0000	1.0269	1.0269	1.2000e-004	0.0000	1.0293
<b>Total</b>	<b>3.4900e-003</b>	<b>1.3700e-003</b>	<b>0.0142</b>	<b>1.0000e-005</b>	<b>7.6000e-004</b>	<b>4.0000e-005</b>	<b>8.0000e-004</b>	<b>2.3000e-004</b>	<b>4.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.0269</b>	<b>1.0269</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.0293</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	0.0283	0.2037	0.0880	1.3200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	11.7793	11.7793	2.3100e-003	0.0000	11.8279
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>0.0283</b>	<b>0.2037</b>	<b>0.0880</b>	<b>1.3200e-003</b>		<b>0.0129</b>	<b>0.0129</b>		<b>0.0129</b>	<b>0.0129</b>	<b>0.0000</b>	<b>11.7793</b>	<b>11.7793</b>	<b>2.3100e-003</b>	<b>0.0000</b>	<b>11.8279</b>

### 3.5 Paving - 2006

#### Mitigated Construction Off-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4900e-003	1.3700e-003	0.0142	1.0000e-005	7.6000e-004	4.0000e-005	8.0000e-004	2.3000e-004	4.0000e-005	2.6000e-004	0.0000	1.0269	1.0269	1.2000e-004	0.0000	1.0293
<b>Total</b>	<b>3.4900e-003</b>	<b>1.3700e-003</b>	<b>0.0142</b>	<b>1.0000e-005</b>	<b>7.6000e-004</b>	<b>4.0000e-005</b>	<b>8.0000e-004</b>	<b>2.3000e-004</b>	<b>4.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.0269</b>	<b>1.0269</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.0293</b>

### 3.6 Architectural Coating - 2005

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1802					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0827	0.4710	0.2286	3.2700e-003		0.0422	0.0422		0.0422	0.0422	0.0000	28.0858	28.0858	6.7700e-003	0.0000	28.2280
<b>Total</b>	<b>1.2629</b>	<b>0.4710</b>	<b>0.2286</b>	<b>3.2700e-003</b>		<b>0.0422</b>	<b>0.0422</b>		<b>0.0422</b>	<b>0.0422</b>	<b>0.0000</b>	<b>28.0858</b>	<b>28.0858</b>	<b>6.7700e-003</b>	<b>0.0000</b>	<b>28.2280</b>



### 3.6 Architectural Coating - 2005

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1946	0.0763	0.7903	6.5000e-004	0.0425	2.1900e-003	0.0447	0.0125	2.1900e-003	0.0147	0.0000	57.2311	57.2311	6.4200e-003	0.0000	57.3659
<b>Total</b>	<b>0.1946</b>	<b>0.0763</b>	<b>0.7903</b>	<b>6.5000e-004</b>	<b>0.0425</b>	<b>2.1900e-003</b>	<b>0.0447</b>	<b>0.0125</b>	<b>2.1900e-003</b>	<b>0.0147</b>	<b>0.0000</b>	<b>57.2311</b>	<b>57.2311</b>	<b>6.4200e-003</b>	<b>0.0000</b>	<b>57.3659</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	1.1802					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0826	0.4705	0.2283	3.2600e-003		0.0422	0.0422		0.0422	0.0422	0.0000	28.0524	28.0524	6.7600e-003	0.0000	28.1944
<b>Total</b>	<b>1.2628</b>	<b>0.4705</b>	<b>0.2283</b>	<b>3.2600e-003</b>		<b>0.0422</b>	<b>0.0422</b>		<b>0.0422</b>	<b>0.0422</b>	<b>0.0000</b>	<b>28.0524</b>	<b>28.0524</b>	<b>6.7600e-003</b>	<b>0.0000</b>	<b>28.1944</b>

### 3.6 Architectural Coating - 2005

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1946	0.0763	0.7903	6.5000e-004	0.0425	2.1900e-003	0.0447	0.0125	2.1900e-003	0.0147	0.0000	57.2311	57.2311	6.4200e-003	0.0000	57.3659
<b>Total</b>	<b>0.1946</b>	<b>0.0763</b>	<b>0.7903</b>	<b>6.5000e-004</b>	<b>0.0425</b>	<b>2.1900e-003</b>	<b>0.0447</b>	<b>0.0125</b>	<b>2.1900e-003</b>	<b>0.0147</b>	<b>0.0000</b>	<b>57.2311</b>	<b>57.2311</b>	<b>6.4200e-003</b>	<b>0.0000</b>	<b>57.3659</b>

### 3.6 Architectural Coating - 2006

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0536					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7600e-003	0.0214	0.0104	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	1.2766	1.2766	3.1000e-004	0.0000	1.2831
<b>Total</b>	<b>0.0574</b>	<b>0.0214</b>	<b>0.0104</b>	<b>1.5000e-004</b>		<b>1.9200e-003</b>	<b>1.9200e-003</b>		<b>1.9200e-003</b>	<b>1.9200e-003</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.2831</b>

### 3.6 Architectural Coating - 2006

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8400e-003	3.4700e-003	0.0359	3.0000e-005	1.9300e-003	1.0000e-004	2.0300e-003	5.7000e-004	1.0000e-004	6.7000e-004	0.0000	2.6014	2.6014	2.9000e-004	0.0000	2.6075
<b>Total</b>	<b>8.8400e-003</b>	<b>3.4700e-003</b>	<b>0.0359</b>	<b>3.0000e-005</b>	<b>1.9300e-003</b>	<b>1.0000e-004</b>	<b>2.0300e-003</b>	<b>5.7000e-004</b>	<b>1.0000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.6014</b>	<b>2.6014</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.6075</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	0.0536					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7500e-003	0.0214	0.0104	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	1.2751	1.2751	3.1000e-004	0.0000	1.2816
<b>Total</b>	<b>0.0574</b>	<b>0.0214</b>	<b>0.0104</b>	<b>1.5000e-004</b>		<b>1.9200e-003</b>	<b>1.9200e-003</b>		<b>1.9200e-003</b>	<b>1.9200e-003</b>	<b>0.0000</b>	<b>1.2751</b>	<b>1.2751</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.2816</b>

### 3.6 Architectural Coating - 2006

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8400e-003	3.4700e-003	0.0359	3.0000e-005	1.9300e-003	1.0000e-004	2.0300e-003	5.7000e-004	1.0000e-004	6.7000e-004	0.0000	2.6014	2.6014	2.9000e-004	0.0000	2.6075
<b>Total</b>	<b>8.8400e-003</b>	<b>3.4700e-003</b>	<b>0.0359</b>	<b>3.0000e-005</b>	<b>1.9300e-003</b>	<b>1.0000e-004</b>	<b>2.0300e-003</b>	<b>5.7000e-004</b>	<b>1.0000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.6014</b>	<b>2.6014</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.6075</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	12.0142	11.6559	54.7507	0.0846	2.4620	0.3735	2.8355	0.7165	0.3735	1.0900	0.0000	3,895.2451	3,895.2451	0.3773	0.0000	3,903.1673
Unmitigated	12.0142	11.6559	54.7507	0.0846	2.4620	0.3735	2.8355	0.7165	0.3735	1.0900	0.0000	3,895.2451	3,895.2451	0.3773	0.0000	3,903.1673

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	659.00	659.00	659.00	2,251,903	2,251,903
Hotel	1,462.43	1,462.43	1462.43	3,489,608	3,489,608
Strip Mall	745.86	745.86	745.86	1,419,070	1,419,070
Total	2,867.29	2,867.29	2,867.29	7,160,581	7,160,581

### 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 High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

### 4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.522333	0.068956	0.227821	0.102314	0.020978	0.006497	0.016927	0.024074	0.001426	0.001960	0.004080	0.000756	0.001878

### 5.0 Energy Detail

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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	1,939.7572	1,939.7572	0.0399	8.2600e-003	1,943.1547
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,939.7572	1,939.7572	0.0399	8.2600e-003	1,943.1547
NaturalGas Mitigated	0.0407	0.3671	0.2894	2.2200e-003		0.0281	0.0281		0.0281	0.0281	0.0000	402.7713	402.7713	7.7200e-003	7.3800e-003	405.2225
NaturalGas Unmitigated	0.0407	0.3671	0.2894	2.2200e-003		0.0281	0.0281		0.0281	0.0281	0.0000	402.7713	402.7713	7.7200e-003	7.3800e-003	405.2225

### 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					
Hotel	6.5029e+006	0.0351	0.3188	0.2678	1.9100e-003		0.0242	0.0242		0.0242	0.0242	0.0000	347.0194	347.0194	6.6500e-003	6.3600e-003	349.1313
Strip Mall	52700	2.8000e-004	2.5800e-003	2.1700e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8123	2.8123	5.0000e-005	5.0000e-005	2.8294
Apartments High Rise	992051	5.3500e-003	0.0457	0.0195	2.9000e-004		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	52.9396	52.9396	1.0100e-003	9.7000e-004	53.2618
<b>Total</b>		<b>0.0407</b>	<b>0.3671</b>	<b>0.2894</b>	<b>2.2200e-003</b>		<b>0.0281</b>	<b>0.0281</b>		<b>0.0281</b>	<b>0.0281</b>	<b>0.0000</b>	<b>402.7713</b>	<b>402.7713</b>	<b>7.7100e-003</b>	<b>7.3800e-003</b>	<b>405.2225</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					
Hotel	6.5029e+006	0.0351	0.3188	0.2678	1.9100e-003		0.0242	0.0242		0.0242	0.0242	0.0000	347.0194	347.0194	6.6500e-003	6.3600e-003	349.1313
Strip Mall	52700	2.8000e-004	2.5800e-003	2.1700e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8123	2.8123	5.0000e-005	5.0000e-005	2.8294
Apartments High Rise	992051	5.3500e-003	0.0457	0.0195	2.9000e-004		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	52.9396	52.9396	1.0100e-003	9.7000e-004	53.2618
<b>Total</b>		<b>0.0407</b>	<b>0.3671</b>	<b>0.2894</b>	<b>2.2200e-003</b>		<b>0.0281</b>	<b>0.0281</b>		<b>0.0281</b>	<b>0.0281</b>	<b>0.0000</b>	<b>402.7713</b>	<b>402.7713</b>	<b>7.7100e-003</b>	<b>7.3800e-003</b>	<b>405.2225</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	354196	226.4752	4.6600e-003	9.6000e-004	226.8719
Hotel	2.20922e+006	1,412.5883	0.0291	6.0100e-003	1,415.0625
Strip Mall	470270	300.6937	6.1900e-003	1.2800e-003	301.2204
<b>Total</b>		<b>1,939.7572</b>	<b>0.0399</b>	<b>8.2500e-003</b>	<b>1,943.1547</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	354196	226.4752	4.6600e-003	9.6000e-004	226.8719
Hotel	2.20922e+006	1,412.5883	0.0291	6.0100e-003	1,415.0625
Strip Mall	470270	300.6937	6.1900e-003	1.2800e-003	301.2204
<b>Total</b>		<b>1,939.7572</b>	<b>0.0399</b>	<b>8.2500e-003</b>	<b>1,943.1547</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	2.2154	0.0246	1.8277	1.0500e-003		0.1006	0.1006		0.1005	0.1005	10.6219	22.1014	32.7233	0.0344	7.2000e-004	33.6692
Unmitigated	2.2154	0.0246	1.8277	1.0500e-003		0.1006	0.1006		0.1005	0.1005	10.6219	22.1014	32.7233	0.0344	7.2000e-004	33.6692



## 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	0.4231					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4126					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3275	8.3100e-003	0.6283	1.0000e-003		0.0955	0.0955		0.0955	0.0955	10.6219	20.4117	31.0336	0.0317	7.2000e-004	31.9223
Landscaping	0.0522	0.0163	1.1994	5.0000e-005		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	1.6898	1.6898	2.7200e-003	0.0000	1.7469
<b>Total</b>	<b>2.2154</b>	<b>0.0246</b>	<b>1.8277</b>	<b>1.0500e-003</b>		<b>0.1006</b>	<b>0.1006</b>		<b>0.1005</b>	<b>0.1005</b>	<b>10.6219</b>	<b>22.1014</b>	<b>32.7233</b>	<b>0.0344</b>	<b>7.2000e-004</b>	<b>33.6692</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	0.4231					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4126					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3275	8.3100e-003	0.6283	1.0000e-003		0.0955	0.0955		0.0955	0.0955	10.6219	20.4117	31.0336	0.0317	7.2000e-004	31.9223
Landscaping	0.0522	0.0163	1.1994	5.0000e-005		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	1.6898	1.6898	2.7200e-003	0.0000	1.7469
<b>Total</b>	<b>2.2154</b>	<b>0.0246</b>	<b>1.8277</b>	<b>1.0500e-003</b>		<b>0.1006</b>	<b>0.1006</b>		<b>0.1005</b>	<b>0.1005</b>	<b>10.6219</b>	<b>22.1014</b>	<b>32.7233</b>	<b>0.0344</b>	<b>7.2000e-004</b>	<b>33.6692</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	209.2576	0.4372	0.0111	221.8730
Unmitigated	209.2576	0.4372	0.0111	221.8797

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	4.42964 / 4.42964	69.7525	0.1458	3.7000e-003	73.9599
Hotel	4.42964 / 4.42964	69.7525	0.1458	3.7000e-003	73.9599
Strip Mall	4.42964 / 4.42964	69.7525	0.1458	3.7000e-003	73.9599
<b>Total</b>		<b>209.2576</b>	<b>0.4373</b>	<b>0.0111</b>	<b>221.8797</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	4.42964 / 4.42964	69.7525	0.1457	3.6900e-003	73.9577
Hotel	4.42964 / 4.42964	69.7525	0.1457	3.6900e-003	73.9577
Strip Mall	4.42964 / 4.42964	69.7525	0.1457	3.6900e-003	73.9577
<b>Total</b>		<b>209.2576</b>	<b>0.4372</b>	<b>0.0111</b>	<b>221.8730</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	52.3717	3.0951	0.0000	117.3683
Unmitigated	52.3717	3.0951	0.0000	117.3683

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	86	17.4572	1.0317	0.0000	39.1228
Hotel	86	17.4572	1.0317	0.0000	39.1228
Strip Mall	86	17.4572	1.0317	0.0000	39.1228
<b>Total</b>		<b>52.3717</b>	<b>3.0951</b>	<b>0.0000</b>	<b>117.3683</b>

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	86	17.4572	1.0317	0.0000	39.1228
Hotel	86	17.4572	1.0317	0.0000	39.1228
Strip Mall	86	17.4572	1.0317	0.0000	39.1228
<b>Total</b>		<b>52.3717</b>	<b>3.0951</b>	<b>0.0000</b>	<b>117.3683</b>

### 9.0 Operational Offroad

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

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# **PROJECT GREENHOUSE GAS EMISSIONS**

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**Paseo Colorado Project**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hotel	179.00	Room	5.97	259,908.00	0
Apartments High Rise	100.00	Dwelling Unit	1.61	100,000.00	286
Strip Mall	31.00	1000sqft	0.71	31,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2016
<b>Utility Company</b>	Pasadena Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	658.68	<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 - CO2 intensity factor per EPA's eGrid Emission Factors by Subregion

Land Use - caleemod glitch

Construction Phase - Building construction, paving, and painting assumed to occur simultaneously

Trips and VMT - 985 hauling trips during construction

Demolition -

Architectural Coating - SCAQMD Rule 1113

Vehicle Trips - Trip generation per Traffic Impact Assessment

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Water And Wastewater - Water use = 26,577,840 gallons annually

Solid Waste - Solid waste = 258 tons annually

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblConstructionPhase	NumDays	20.00	230.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	230.00
tblConstructionPhase	PhaseEndDate	11/30/2016	1/13/2016
tblConstructionPhase	PhaseEndDate	11/30/2016	1/13/2016
tblConstructionPhase	PhaseStartDate	1/14/2016	2/26/2015
tblConstructionPhase	PhaseStartDate	1/14/2016	2/26/2015
tblProjectCharacteristics	CO2IntensityFactor	1664.14	658.68
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	46.00	86.00
tblSolidWaste	SolidWasteGenerationRate	98.00	86.00
tblSolidWaste	SolidWasteGenerationRate	32.55	86.00

tblTripsAndVMT	HaulingTripNumber	779.00	985.00
tblVehicleTrips	ST_TR	7.16	6.59
tblVehicleTrips	ST_TR	8.19	8.17
tblVehicleTrips	ST_TR	42.04	24.06
tblVehicleTrips	SU_TR	6.07	6.59
tblVehicleTrips	SU_TR	5.95	8.17
tblVehicleTrips	SU_TR	20.43	24.06
tblVehicleTrips	WD_TR	44.32	24.06
tblWater	IndoorWaterUseRate	6,515,402.56	4,429,640.00
tblWater	IndoorWaterUseRate	4,540,651.83	4,429,640.00
tblWater	IndoorWaterUseRate	2,296,248.17	4,429,640.00
tblWater	OutdoorWaterUseRate	4,107,536.40	4,429,640.00
tblWater	OutdoorWaterUseRate	504,516.87	4,429,640.00
tblWater	OutdoorWaterUseRate	1,407,377.91	4,429,640.00

## 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					
2015	2.7713	8.4143	7.6376	0.0121	0.5212	0.4832	1.0044	0.1553	0.4517	0.6070	0.0000	1,071.8957	1,071.8957	0.1814	0.0000	1,075.7056
2016	0.1031	0.2706	0.2625	4.4000e-004	0.0136	0.0159	0.0295	3.6500e-003	0.0149	0.0185	0.0000	38.4389	38.4389	6.4000e-003	0.0000	38.5732
<b>Total</b>	<b>2.8744</b>	<b>8.6849</b>	<b>7.9001</b>	<b>0.0126</b>	<b>0.5349</b>	<b>0.4990</b>	<b>1.0339</b>	<b>0.1590</b>	<b>0.4665</b>	<b>0.6255</b>	<b>0.0000</b>	<b>1,110.3346</b>	<b>1,110.3346</b>	<b>0.1878</b>	<b>0.0000</b>	<b>1,114.2788</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					
2015	2.7703	8.4055	7.6320	0.0121	0.7058	0.4826	1.1884	0.2006	0.4511	0.6518	0.0000	1,071.1734	1,071.1734	0.1812	0.0000	1,074.9792
2016	0.1031	0.2703	0.2623	4.4000e-004	0.0136	0.0159	0.0295	3.6500e-003	0.0148	0.0185	0.0000	38.4133	38.4133	6.3900e-003	0.0000	38.5475
<b>Total</b>	<b>2.8734</b>	<b>8.6758</b>	<b>7.8943</b>	<b>0.0126</b>	<b>0.7194</b>	<b>0.4985</b>	<b>1.2179</b>	<b>0.2043</b>	<b>0.4660</b>	<b>0.6702</b>	<b>0.0000</b>	<b>1,109.5867</b>	<b>1,109.5867</b>	<b>0.1876</b>	<b>0.0000</b>	<b>1,113.5267</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>0.0341</b>	<b>0.1047</b>	<b>0.0730</b>	<b>0.0796</b>	<b>-34.5062</b>	<b>0.1142</b>	<b>-17.7957</b>	<b>-28.4959</b>	<b>0.1158</b>	<b>-7.1561</b>	<b>0.0000</b>	<b>0.0674</b>	<b>0.0674</b>	<b>0.1065</b>	<b>0.0000</b>	<b>0.0675</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	2.1495	0.0206	1.6767	1.0500e-003		0.1011	0.1011		0.1011	0.1011	10.6219	22.1014	32.7233	0.0334	7.2000e-004	33.6484
Energy	0.0407	0.3671	0.2894	2.2200e-003		0.0281	0.0281		0.0281	0.0281	0.0000	1,309.1518	1,309.1518	0.0476	0.0156	1,315.0005
Mobile	4.9855	4.9063	19.6166	0.0410	2.7132	0.0654	2.7786	0.7266	0.0601	0.7867	0.0000	3,281.3690	3,281.3690	0.1431	0.0000	3,284.3733
Waste						0.0000	0.0000		0.0000	0.0000	52.3717	0.0000	52.3717	3.0951	0.0000	117.3683
Water						0.0000	0.0000		0.0000	0.0000	4.2160	95.8088	100.0247	0.4372	0.0111	112.6469
<b>Total</b>	<b>7.1757</b>	<b>5.2939</b>	<b>21.5827</b>	<b>0.0443</b>	<b>2.7132</b>	<b>0.1947</b>	<b>2.9079</b>	<b>0.7266</b>	<b>0.1894</b>	<b>0.9160</b>	<b>67.2095</b>	<b>4,708.4310</b>	<b>4,775.6406</b>	<b>3.7564</b>	<b>0.0275</b>	<b>4,863.0373</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	1.8241	0.0123	1.0485	5.0000e-005		7.1600e-003	7.1600e-003		7.1400e-003	7.1400e-003	0.0000	23.3021	23.3021	2.1500e-003	4.0000e-004	23.4700
Energy	0.0356	0.3211	0.2531	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	1,214.4256	1,214.4256	0.0447	0.0143	1,219.8012
Mobile	4.9855	4.9063	19.6166	0.0410	2.7132	0.0654	2.7786	0.7266	0.0601	0.7867	0.0000	3,281.3690	3,281.3690	0.1431	0.0000	3,284.3733
Waste						0.0000	0.0000		0.0000	0.0000	52.3717	0.0000	52.3717	3.0951	0.0000	117.3683
Water						0.0000	0.0000		0.0000	0.0000	3.3728	85.4692	88.8419	0.3501	8.9500e-003	98.9673
<b>Total</b>	<b>6.8452</b>	<b>5.2396</b>	<b>20.9182</b>	<b>0.0430</b>	<b>2.7132</b>	<b>0.0972</b>	<b>2.8104</b>	<b>0.7266</b>	<b>0.0919</b>	<b>0.8185</b>	<b>55.7444</b>	<b>4,604.5659</b>	<b>4,660.3103</b>	<b>3.6351</b>	<b>0.0237</b>	<b>4,743.9801</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>4.6053</b>	<b>1.0261</b>	<b>3.0788</b>	<b>2.8900</b>	<b>0.0000</b>	<b>50.0899</b>	<b>3.3530</b>	<b>0.0000</b>	<b>51.4919</b>	<b>10.6443</b>	<b>17.0587</b>	<b>2.2059</b>	<b>2.4150</b>	<b>3.2291</b>	<b>13.8383</b>	<b>2.4482</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	1/1/2015	2/11/2015	5	30	
2	Site Preparation	Site Preparation	2/12/2015	2/25/2015	5	10	
3	Building Construction	Building Construction	2/26/2015	1/13/2016	5	230	
4	Paving	Paving	2/26/2015	1/13/2016	5	230	
5	Architectural Coating	Architectural Coating	2/26/2015	1/13/2016	5	230	

### 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
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	985.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	191.00	58.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	38.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2015

#### Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0843	0.0000	0.0843	0.0128	0.0000	0.0128	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0676	0.7254	0.5411	6.0000e-004		0.0368	0.0368		0.0343	0.0343	0.0000	56.1619	56.1619	0.0152	0.0000	56.4816
<b>Total</b>	<b>0.0676</b>	<b>0.7254</b>	<b>0.5411</b>	<b>6.0000e-004</b>	<b>0.0843</b>	<b>0.0368</b>	<b>0.1210</b>	<b>0.0128</b>	<b>0.0343</b>	<b>0.0471</b>	<b>0.0000</b>	<b>56.1619</b>	<b>56.1619</b>	<b>0.0152</b>	<b>0.0000</b>	<b>56.4816</b>



### 3.2 Demolition - 2015

#### Unmitigated Construction Off-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0220	0.1647	0.1188	3.7000e-004	8.4300e-003	2.5800e-003	0.0110	2.3100e-003	2.3700e-003	4.6800e-003	0.0000	33.9713	33.9713	2.8000e-004	0.0000	33.9771
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3600e-003	1.5900e-003	0.0165	3.0000e-005	2.4700e-003	3.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.8000e-004	0.0000	2.4890	2.4890	1.5000e-004	0.0000	2.4921
<b>Total</b>	<b>0.0274</b>	<b>0.1662</b>	<b>0.1353</b>	<b>4.0000e-004</b>	<b>0.0109</b>	<b>2.6100e-003</b>	<b>0.0135</b>	<b>2.9600e-003</b>	<b>2.3900e-003</b>	<b>5.3600e-003</b>	<b>0.0000</b>	<b>36.4602</b>	<b>36.4602</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>36.4692</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					0.0843	0.0000	0.0843	0.0128	0.0000	0.0128	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0675	0.7246	0.5405	6.0000e-004		0.0367	0.0367		0.0343	0.0343	0.0000	56.0951	56.0951	0.0152	0.0000	56.4144
<b>Total</b>	<b>0.0675</b>	<b>0.7246</b>	<b>0.5405</b>	<b>6.0000e-004</b>	<b>0.0843</b>	<b>0.0367</b>	<b>0.1210</b>	<b>0.0128</b>	<b>0.0343</b>	<b>0.0470</b>	<b>0.0000</b>	<b>56.0951</b>	<b>56.0951</b>	<b>0.0152</b>	<b>0.0000</b>	<b>56.4144</b>

### 3.2 Demolition - 2015

#### Mitigated Construction Off-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0220	0.1647	0.1188	3.7000e-004	0.1930	2.5800e-003	0.1956	0.0476	2.3700e-003	0.0500	0.0000	33.9713	33.9713	2.8000e-004	0.0000	33.9771
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3600e-003	1.5900e-003	0.0165	3.0000e-005	2.4700e-003	3.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.8000e-004	0.0000	2.4890	2.4890	1.5000e-004	0.0000	2.4921
<b>Total</b>	<b>0.0274</b>	<b>0.1662</b>	<b>0.1353</b>	<b>4.0000e-004</b>	<b>0.1955</b>	<b>2.6100e-003</b>	<b>0.1981</b>	<b>0.0483</b>	<b>2.3900e-003</b>	<b>0.0507</b>	<b>0.0000</b>	<b>36.4602</b>	<b>36.4602</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>36.4692</b>

### 3.3 Site Preparation - 2015

#### Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142	0.0000	18.6506	18.6506	5.5700e-003	0.0000	18.7675
<b>Total</b>	<b>0.0263</b>	<b>0.2845</b>	<b>0.2132</b>	<b>2.0000e-004</b>	<b>0.0903</b>	<b>0.0154</b>	<b>0.1058</b>	<b>0.0497</b>	<b>0.0142</b>	<b>0.0639</b>	<b>0.0000</b>	<b>18.6506</b>	<b>18.6506</b>	<b>5.5700e-003</b>	<b>0.0000</b>	<b>18.7675</b>

### 3.3 Site Preparation - 2015

#### Unmitigated Construction Off-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1400e-003	6.4000e-004	6.6200e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9956	0.9956	6.0000e-005	0.0000	0.9968
<b>Total</b>	<b>2.1400e-003</b>	<b>6.4000e-004</b>	<b>6.6200e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.9956</b>	<b>0.9956</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.9968</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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2841	0.2129	2.0000e-004		0.0154	0.0154		0.0142	0.0142	0.0000	18.6284	18.6284	5.5600e-003	0.0000	18.7452
<b>Total</b>	<b>0.0263</b>	<b>0.2841</b>	<b>0.2129</b>	<b>2.0000e-004</b>	<b>0.0903</b>	<b>0.0154</b>	<b>0.1058</b>	<b>0.0497</b>	<b>0.0142</b>	<b>0.0638</b>	<b>0.0000</b>	<b>18.6284</b>	<b>18.6284</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>18.7452</b>

### 3.3 Site Preparation - 2015

#### Mitigated Construction Off-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1400e-003	6.4000e-004	6.6200e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9956	0.9956	6.0000e-005	0.0000	0.9968
<b>Total</b>	<b>2.1400e-003</b>	<b>6.4000e-004</b>	<b>6.6200e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.9956</b>	<b>0.9956</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.9968</b>

### 3.4 Building Construction - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4043	3.3183	2.0713	2.9600e-003		0.2339	0.2339		0.2199	0.2199	0.0000	269.6137	269.6137	0.0677	0.0000	271.0343
<b>Total</b>	<b>0.4043</b>	<b>3.3183</b>	<b>2.0713</b>	<b>2.9600e-003</b>		<b>0.2339</b>	<b>0.2339</b>		<b>0.2199</b>	<b>0.2199</b>	<b>0.0000</b>	<b>269.6137</b>	<b>269.6137</b>	<b>0.0677</b>	<b>0.0000</b>	<b>271.0343</b>

### 3.4 Building Construction - 2015

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1152	0.6630	0.8230	1.4100e-003	0.0393	0.0107	0.0500	0.0112	9.8200e-003	0.0210	0.0000	128.9844	128.9844	1.0500e-003	0.0000	129.0065
Worker	0.5024	0.1489	1.5514	2.9400e-003	0.2313	2.3600e-003	0.2336	0.0614	2.1600e-003	0.0636	0.0000	233.4703	233.4703	0.0139	0.0000	233.7620
<b>Total</b>	<b>0.6176</b>	<b>0.8119</b>	<b>2.3744</b>	<b>4.3500e-003</b>	<b>0.2706</b>	<b>0.0130</b>	<b>0.2836</b>	<b>0.0726</b>	<b>0.0120</b>	<b>0.0846</b>	<b>0.0000</b>	<b>362.4547</b>	<b>362.4547</b>	<b>0.0149</b>	<b>0.0000</b>	<b>362.7685</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	0.4038	3.3144	2.0688	2.9600e-003		0.2336	0.2336		0.2197	0.2197	0.0000	269.2930	269.2930	0.0676	0.0000	270.7119
<b>Total</b>	<b>0.4038</b>	<b>3.3144</b>	<b>2.0688</b>	<b>2.9600e-003</b>		<b>0.2336</b>	<b>0.2336</b>		<b>0.2197</b>	<b>0.2197</b>	<b>0.0000</b>	<b>269.2930</b>	<b>269.2930</b>	<b>0.0676</b>	<b>0.0000</b>	<b>270.7119</b>

### 3.4 Building Construction - 2015

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1152	0.6630	0.8230	1.4100e-003	0.0393	0.0107	0.0500	0.0112	9.8200e-003	0.0210	0.0000	128.9844	128.9844	1.0500e-003	0.0000	129.0065
Worker	0.5024	0.1489	1.5514	2.9400e-003	0.2313	2.3600e-003	0.2336	0.0614	2.1600e-003	0.0636	0.0000	233.4703	233.4703	0.0139	0.0000	233.7620
<b>Total</b>	<b>0.6176</b>	<b>0.8119</b>	<b>2.3744</b>	<b>4.3500e-003</b>	<b>0.2706</b>	<b>0.0130</b>	<b>0.2836</b>	<b>0.0726</b>	<b>0.0120</b>	<b>0.0846</b>	<b>0.0000</b>	<b>362.4547</b>	<b>362.4547</b>	<b>0.0149</b>	<b>0.0000</b>	<b>362.7685</b>

### 3.4 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	0.0153	0.1283	0.0833	1.2000e-004		8.8500e-003	8.8500e-003		8.3200e-003	8.3200e-003	0.0000	10.8969	10.8969	2.7000e-003	0.0000	10.9537
<b>Total</b>	<b>0.0153</b>	<b>0.1283</b>	<b>0.0833</b>	<b>1.2000e-004</b>		<b>8.8500e-003</b>	<b>8.8500e-003</b>		<b>8.3200e-003</b>	<b>8.3200e-003</b>	<b>0.0000</b>	<b>10.8969</b>	<b>10.8969</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>10.9537</b>

### 3.4 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	4.0500e-003	0.0239	0.0310	6.0000e-005	1.6000e-003	3.6000e-004	1.9600e-003	4.6000e-004	3.3000e-004	7.9000e-004	0.0000	5.1961	5.1961	4.0000e-005	0.0000	5.1969
Worker	0.0191	5.4800e-003	0.0572	1.2000e-004	9.4200e-003	9.0000e-005	9.5100e-003	2.5000e-003	8.0000e-005	2.5900e-003	0.0000	9.1905	9.1905	5.2000e-004	0.0000	9.2014
<b>Total</b>	<b>0.0232</b>	<b>0.0294</b>	<b>0.0882</b>	<b>1.8000e-004</b>	<b>0.0110</b>	<b>4.5000e-004</b>	<b>0.0115</b>	<b>2.9600e-003</b>	<b>4.1000e-004</b>	<b>3.3800e-003</b>	<b>0.0000</b>	<b>14.3866</b>	<b>14.3866</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>14.3983</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	0.0153	0.1281	0.0832	1.2000e-004		8.8400e-003	8.8400e-003		8.3100e-003	8.3100e-003	0.0000	10.8840	10.8840	2.7000e-003	0.0000	10.9406
<b>Total</b>	<b>0.0153</b>	<b>0.1281</b>	<b>0.0832</b>	<b>1.2000e-004</b>		<b>8.8400e-003</b>	<b>8.8400e-003</b>		<b>8.3100e-003</b>	<b>8.3100e-003</b>	<b>0.0000</b>	<b>10.8840</b>	<b>10.8840</b>	<b>2.7000e-003</b>	<b>0.0000</b>	<b>10.9406</b>

### 3.4 Building Construction - 2016

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0500e-003	0.0239	0.0310	6.0000e-005	1.6000e-003	3.6000e-004	1.9600e-003	4.6000e-004	3.3000e-004	7.9000e-004	0.0000	5.1961	5.1961	4.0000e-005	0.0000	5.1969
Worker	0.0191	5.4800e-003	0.0572	1.2000e-004	9.4200e-003	9.0000e-005	9.5100e-003	2.5000e-003	8.0000e-005	2.5900e-003	0.0000	9.1905	9.1905	5.2000e-004	0.0000	9.2014
<b>Total</b>	<b>0.0232</b>	<b>0.0294</b>	<b>0.0882</b>	<b>1.8000e-004</b>	<b>0.0110</b>	<b>4.5000e-004</b>	<b>0.0115</b>	<b>2.9600e-003</b>	<b>4.1000e-004</b>	<b>3.3800e-003</b>	<b>0.0000</b>	<b>14.3866</b>	<b>14.3866</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>14.3983</b>

### 3.5 Paving - 2015

#### Unmitigated Construction On-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2561	2.7819	1.6551	2.4600e-003		0.1563	0.1563		0.1438	0.1438	0.0000	234.5606	234.5606	0.0700	0.0000	236.0311
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>0.2561</b>	<b>2.7819</b>	<b>1.6551</b>	<b>2.4600e-003</b>		<b>0.1563</b>	<b>0.1563</b>		<b>0.1438</b>	<b>0.1438</b>	<b>0.0000</b>	<b>234.5606</b>	<b>234.5606</b>	<b>0.0700</b>	<b>0.0000</b>	<b>236.0311</b>



### 3.5 Paving - 2015

#### Unmitigated Construction Off-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0395	0.0117	0.1218	2.3000e-004	0.0182	1.9000e-004	0.0184	4.8200e-003	1.7000e-004	4.9900e-003	0.0000	18.3354	18.3354	1.0900e-003	0.0000	18.3583
<b>Total</b>	<b>0.0395</b>	<b>0.0117</b>	<b>0.1218</b>	<b>2.3000e-004</b>	<b>0.0182</b>	<b>1.9000e-004</b>	<b>0.0184</b>	<b>4.8200e-003</b>	<b>1.7000e-004</b>	<b>4.9900e-003</b>	<b>0.0000</b>	<b>18.3354</b>	<b>18.3354</b>	<b>1.0900e-003</b>	<b>0.0000</b>	<b>18.3583</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	0.2558	2.7786	1.6531	2.4600e-003		0.1562	0.1562		0.1437	0.1437	0.0000	234.2815	234.2815	0.0699	0.0000	235.7503
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>0.2558</b>	<b>2.7786</b>	<b>1.6531</b>	<b>2.4600e-003</b>		<b>0.1562</b>	<b>0.1562</b>		<b>0.1437</b>	<b>0.1437</b>	<b>0.0000</b>	<b>234.2815</b>	<b>234.2815</b>	<b>0.0699</b>	<b>0.0000</b>	<b>235.7503</b>

### 3.5 Paving - 2015

#### Mitigated Construction Off-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0395	0.0117	0.1218	2.3000e-004	0.0182	1.9000e-004	0.0184	4.8200e-003	1.7000e-004	4.9900e-003	0.0000	18.3354	18.3354	1.0900e-003	0.0000	18.3583
<b>Total</b>	<b>0.0395</b>	<b>0.0117</b>	<b>0.1218</b>	<b>2.3000e-004</b>	<b>0.0182</b>	<b>1.9000e-004</b>	<b>0.0184</b>	<b>4.8200e-003</b>	<b>1.7000e-004</b>	<b>4.9900e-003</b>	<b>0.0000</b>	<b>18.3354</b>	<b>18.3354</b>	<b>1.0900e-003</b>	<b>0.0000</b>	<b>18.3583</b>

### 3.5 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	9.4000e-003	0.1007	0.0667	1.0000e-004		5.6700e-003	5.6700e-003		5.2200e-003	5.2200e-003	0.0000	9.4562	9.4562	2.8500e-003	0.0000	9.5161
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>9.4000e-003</b>	<b>0.1007</b>	<b>0.0667</b>	<b>1.0000e-004</b>		<b>5.6700e-003</b>	<b>5.6700e-003</b>		<b>5.2200e-003</b>	<b>5.2200e-003</b>	<b>0.0000</b>	<b>9.4562</b>	<b>9.4562</b>	<b>2.8500e-003</b>	<b>0.0000</b>	<b>9.5161</b>

### 3.5 Paving - 2016

#### Unmitigated Construction Off-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-003	4.3000e-004	4.4900e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	1.0000e-005	2.0000e-004	0.0000	0.7218	0.7218	4.0000e-005	0.0000	0.7226
<b>Total</b>	<b>1.5000e-003</b>	<b>4.3000e-004</b>	<b>4.4900e-003</b>	<b>1.0000e-005</b>	<b>7.4000e-004</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>2.0000e-004</b>	<b>1.0000e-005</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.7218</b>	<b>0.7218</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7226</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	9.3900e-003	0.1006	0.0666	1.0000e-004		5.6700e-003	5.6700e-003		5.2100e-003	5.2100e-003	0.0000	9.4450	9.4450	2.8500e-003	0.0000	9.5048
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>9.3900e-003</b>	<b>0.1006</b>	<b>0.0666</b>	<b>1.0000e-004</b>		<b>5.6700e-003</b>	<b>5.6700e-003</b>		<b>5.2100e-003</b>	<b>5.2100e-003</b>	<b>0.0000</b>	<b>9.4450</b>	<b>9.4450</b>	<b>2.8500e-003</b>	<b>0.0000</b>	<b>9.5048</b>

### 3.5 Paving - 2016

#### Mitigated Construction Off-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-003	4.3000e-004	4.4900e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.0000e-004	1.0000e-005	2.0000e-004	0.0000	0.7218	0.7218	4.0000e-005	0.0000	0.7226
<b>Total</b>	<b>1.5000e-003</b>	<b>4.3000e-004</b>	<b>4.4900e-003</b>	<b>1.0000e-005</b>	<b>7.4000e-004</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>2.0000e-004</b>	<b>1.0000e-005</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.7218</b>	<b>0.7218</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.7226</b>

### 3.6 Architectural Coating - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.1855					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0449	0.2840	0.2101	3.3000e-004		0.0244	0.0244		0.0244	0.0244	0.0000	28.2135	28.2135	3.6700e-003	0.0000	28.2906
<b>Total</b>	<b>1.2305</b>	<b>0.2840</b>	<b>0.2101</b>	<b>3.3000e-004</b>		<b>0.0244</b>	<b>0.0244</b>		<b>0.0244</b>	<b>0.0244</b>	<b>0.0000</b>	<b>28.2135</b>	<b>28.2135</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>28.2906</b>

### 3.6 Architectural Coating - 2015

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1000	0.0296	0.3087	5.9000e-004	0.0460	4.7000e-004	0.0465	0.0122	4.3000e-004	0.0127	0.0000	46.4496	46.4496	2.7600e-003	0.0000	46.5076
<b>Total</b>	<b>0.1000</b>	<b>0.0296</b>	<b>0.3087</b>	<b>5.9000e-004</b>	<b>0.0460</b>	<b>4.7000e-004</b>	<b>0.0465</b>	<b>0.0122</b>	<b>4.3000e-004</b>	<b>0.0127</b>	<b>0.0000</b>	<b>46.4496</b>	<b>46.4496</b>	<b>2.7600e-003</b>	<b>0.0000</b>	<b>46.5076</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	1.1855					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0449	0.2837	0.2099	3.3000e-004		0.0244	0.0244		0.0244	0.0244	0.0000	28.1799	28.1799	3.6700e-003	0.0000	28.2570
<b>Total</b>	<b>1.2304</b>	<b>0.2837</b>	<b>0.2099</b>	<b>3.3000e-004</b>		<b>0.0244</b>	<b>0.0244</b>		<b>0.0244</b>	<b>0.0244</b>	<b>0.0000</b>	<b>28.1799</b>	<b>28.1799</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>28.2570</b>

### 3.6 Architectural Coating - 2015

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1000	0.0296	0.3087	5.9000e-004	0.0460	4.7000e-004	0.0465	0.0122	4.3000e-004	0.0127	0.0000	46.4496	46.4496	2.7600e-003	0.0000	46.5076	
<b>Total</b>	<b>0.1000</b>	<b>0.0296</b>	<b>0.3087</b>	<b>5.9000e-004</b>	<b>0.0460</b>	<b>4.7000e-004</b>	<b>0.0465</b>	<b>0.0122</b>	<b>4.3000e-004</b>	<b>0.0127</b>	<b>0.0000</b>	<b>46.4496</b>	<b>46.4496</b>	<b>2.7600e-003</b>	<b>0.0000</b>	<b>46.5076</b>	

### 3.6 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	0.0483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6600e-003	0.0107	8.4800e-003	1.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	1.1490	1.1490	1.4000e-004	0.0000	1.1518
<b>Total</b>	<b>0.0499</b>	<b>0.0107</b>	<b>8.4800e-003</b>	<b>1.0000e-005</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>1.1490</b>	<b>1.1490</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.1518</b>

### 3.6 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	3.8000e-003	1.0900e-003	0.0114	2.0000e-005	1.8700e-003	2.0000e-005	1.8900e-003	5.0000e-004	2.0000e-005	5.1000e-004	0.0000	1.8285	1.8285	1.0000e-004	0.0000	1.8307
<b>Total</b>	<b>3.8000e-003</b>	<b>1.0900e-003</b>	<b>0.0114</b>	<b>2.0000e-005</b>	<b>1.8700e-003</b>	<b>2.0000e-005</b>	<b>1.8900e-003</b>	<b>5.0000e-004</b>	<b>2.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.8285</b>	<b>1.8285</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.8307</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	0.0483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6600e-003	0.0107	8.4700e-003	1.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004	0.0000	1.1476	1.1476	1.4000e-004	0.0000	1.1504
<b>Total</b>	<b>0.0499</b>	<b>0.0107</b>	<b>8.4700e-003</b>	<b>1.0000e-005</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>1.1476</b>	<b>1.1476</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.1504</b>

### 3.6 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	3.8000e-003	1.0900e-003	0.0114	2.0000e-005	1.8700e-003	2.0000e-005	1.8900e-003	5.0000e-004	2.0000e-005	5.1000e-004	0.0000	1.8285	1.8285	1.0000e-004	0.0000	1.8307
<b>Total</b>	<b>3.8000e-003</b>	<b>1.0900e-003</b>	<b>0.0114</b>	<b>2.0000e-005</b>	<b>1.8700e-003</b>	<b>2.0000e-005</b>	<b>1.8900e-003</b>	<b>5.0000e-004</b>	<b>2.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.8285</b>	<b>1.8285</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.8307</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	4.9855	4.9063	19.6166	0.0410	2.7132	0.0654	2.7786	0.7266	0.0601	0.7867	0.0000	3,281.3690	3,281.3690	0.1431	0.0000	3,284.3733
Unmitigated	4.9855	4.9063	19.6166	0.0410	2.7132	0.0654	2.7786	0.7266	0.0601	0.7867	0.0000	3,281.3690	3,281.3690	0.1431	0.0000	3,284.3733

#### 4.2 Trip Summary Information



Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	659.00	659.00	659.00	2,251,903	2,251,903
Hotel	1,462.43	1,462.43	1462.43	3,489,608	3,489,608
Strip Mall	745.86	745.86	745.86	1,419,070	1,419,070
<b>Total</b>	<b>2,867.29</b>	<b>2,867.29</b>	<b>2,867.29</b>	<b>7,160,581</b>	<b>7,160,581</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 High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

### 4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.533598	0.058434	0.178244	0.125508	0.038944	0.006283	0.016425	0.031066	0.002453	0.003157	0.003691	0.000543	0.001655

### 5.0 Energy Detail

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Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

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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	862.1258	862.1258	0.0380	7.8500e-003	865.3574
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	906.3805	906.3805	0.0399	8.2600e-003	909.7780
NaturalGas Mitigated	0.0356	0.3211	0.2531	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.2998	352.2998	6.7500e-003	6.4600e-003	354.4438
NaturalGas Unmitigated	0.0407	0.3671	0.2894	2.2200e-003		0.0281	0.0281		0.0281	0.0281	0.0000	402.7713	402.7713	7.7200e-003	7.3800e-003	405.2225

### 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					
Hotel	6.5029e+006	0.0351	0.3188	0.2678	1.9100e-003		0.0242	0.0242		0.0242	0.0242	0.0000	347.0194	347.0194	6.6500e-003	6.3600e-003	349.1313
Strip Mall	52700	2.8000e-004	2.5800e-003	2.1700e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8123	2.8123	5.0000e-005	5.0000e-005	2.8294
Apartments High Rise	992051	5.3500e-003	0.0457	0.0195	2.9000e-004		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	52.9396	52.9396	1.0100e-003	9.7000e-004	53.2618
<b>Total</b>		<b>0.0407</b>	<b>0.3671</b>	<b>0.2894</b>	<b>2.2200e-003</b>		<b>0.0281</b>	<b>0.0281</b>		<b>0.0281</b>	<b>0.0281</b>	<b>0.0000</b>	<b>402.7713</b>	<b>402.7713</b>	<b>7.7100e-003</b>	<b>7.3800e-003</b>	<b>405.2225</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					
Hotel	5.68575e+006	0.0307	0.2787	0.2341	1.6700e-003		0.0212	0.0212		0.0212	0.0212	0.0000	303.4131	303.4131	5.8200e-003	5.5600e-003	305.2597
Strip Mall	47073.5	2.5000e-004	2.3100e-003	1.9400e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5120	2.5120	5.0000e-005	5.0000e-005	2.5273
Apartments High Rise	869027	4.6900e-003	0.0400	0.0170	2.6000e-004		3.2400e-003	3.2400e-003		3.2400e-003	3.2400e-003	0.0000	46.3746	46.3746	8.9000e-004	8.5000e-004	46.6568
<b>Total</b>		<b>0.0356</b>	<b>0.3211</b>	<b>0.2531</b>	<b>1.9400e-003</b>		<b>0.0246</b>	<b>0.0246</b>		<b>0.0246</b>	<b>0.0246</b>	<b>0.0000</b>	<b>352.2998</b>	<b>352.2998</b>	<b>6.7600e-003</b>	<b>6.4600e-003</b>	<b>354.4438</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	354196	105.8239	4.6600e-003	9.6000e-004	106.2206
Hotel	2.20922e+006	660.0530	0.0291	6.0100e-003	662.5271
Strip Mall	470270	140.5036	6.1900e-003	1.2800e-003	141.0303
<b>Total</b>		<b>906.3805</b>	<b>0.0399</b>	<b>8.2500e-003</b>	<b>909.7780</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	350496	104.7185	4.6100e-003	9.5000e-004	105.1110
Hotel	2.08758e+006	623.7112	0.0275	5.6800e-003	626.0492
Strip Mall	447485	133.6961	5.8900e-003	1.2200e-003	134.1972
<b>Total</b>		<b>862.1258</b>	<b>0.0380</b>	<b>7.8500e-003</b>	<b>865.3574</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.8241	0.0123	1.0485	5.0000e-005		7.1600e-003	7.1600e-003		7.1400e-003	7.1400e-003	0.0000	23.3021	23.3021	2.1500e-003	4.0000e-004	23.4700
Unmitigated	2.1495	0.0206	1.6767	1.0500e-003		0.1011	0.1011		0.1011	0.1011	10.6219	22.1014	32.7233	0.0334	7.2000e-004	33.6484

## 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	0.3762					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4126					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3275	8.3100e-003	0.6283	1.0000e-003		0.0955	0.0955		0.0955	0.0955	10.6219	20.4117	31.0336	0.0317	7.2000e-004	31.9223
Landscaping	0.0332	0.0123	1.0484	5.0000e-005		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	0.0000	1.6898	1.6898	1.7300e-003	0.0000	1.7261
<b>Total</b>	<b>2.1495</b>	<b>0.0206</b>	<b>1.6767</b>	<b>1.0500e-003</b>		<b>0.1011</b>	<b>0.1011</b>		<b>0.1011</b>	<b>0.1011</b>	<b>10.6219</b>	<b>22.1014</b>	<b>32.7233</b>	<b>0.0334</b>	<b>7.2000e-004</b>	<b>33.6484</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	0.3762					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4126					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.1800e-003	0.0000	1.2000e-004	0.0000		1.5100e-003	1.5100e-003		1.4900e-003	1.4900e-003	0.0000	21.6123	21.6123	4.1000e-004	4.0000e-004	21.7439
Landscaping	0.0332	0.0123	1.0484	5.0000e-005		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	0.0000	1.6898	1.6898	1.7300e-003	0.0000	1.7261
<b>Total</b>	<b>1.8241</b>	<b>0.0123</b>	<b>1.0485</b>	<b>5.0000e-005</b>		<b>7.1600e-003</b>	<b>7.1600e-003</b>		<b>7.1400e-003</b>	<b>7.1400e-003</b>	<b>0.0000</b>	<b>23.3021</b>	<b>23.3021</b>	<b>2.1400e-003</b>	<b>4.0000e-004</b>	<b>23.4700</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	88.8419	0.3501	8.9500e-003	98.9673
Unmitigated	100.0247	0.4372	0.0111	112.6469

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	4.42964 / 4.42964	33.3416	0.1458	3.7000e-003	37.5490
Hotel	4.42964 / 4.42964	33.3416	0.1458	3.7000e-003	37.5490
Strip Mall	4.42964 / 4.42964	33.3416	0.1458	3.7000e-003	37.5490
<b>Total</b>		<b>100.0247</b>	<b>0.4373</b>	<b>0.0111</b>	<b>112.6469</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	3.54371 / 4.42964	29.6140	0.1167	2.9800e-003	32.9891
Hotel	3.54371 / 4.42964	29.6140	0.1167	2.9800e-003	32.9891
Strip Mall	3.54371 / 4.42964	29.6140	0.1167	2.9800e-003	32.9891
<b>Total</b>		<b>88.8419</b>	<b>0.3501</b>	<b>8.9400e-003</b>	<b>98.9673</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	52.3717	3.0951	0.0000	117.3683
Unmitigated	52.3717	3.0951	0.0000	117.3683

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	86	17.4572	1.0317	0.0000	39.1228
Hotel	86	17.4572	1.0317	0.0000	39.1228
Strip Mall	86	17.4572	1.0317	0.0000	39.1228
<b>Total</b>		<b>52.3717</b>	<b>3.0951</b>	<b>0.0000</b>	<b>117.3683</b>

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	86	17.4572	1.0317	0.0000	39.1228
Hotel	86	17.4572	1.0317	0.0000	39.1228
Strip Mall	86	17.4572	1.0317	0.0000	39.1228
<b>Total</b>		<b>52.3717</b>	<b>3.0951</b>	<b>0.0000</b>	<b>117.3683</b>

### 9.0 Operational Offroad

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

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