

**APPENDIX 6.0**

---

**CalEEMod Air Quality and Greenhouse Gas Emissions Files**

## Kenwood Project South Coast Air Basin, Annual

### 1.0 Project Characteristics

---

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	23.54	1000sqft	0.52	23,534.00	0
Apartments High Rise	44.00	Dwelling Unit	0.52	44,000.00	132

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	12			<b>Operational Year</b>	2018
<b>Utility Company</b>	Glendale Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1115.33	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - The project would develop 44 multifamily residential units, or approximately .52 acre.

Construction Phase - Construction would take approximately 20 months and would involve demolition, site preparation/grading, and building construction.

Demolition -

Grading - .52-acre, would be disturbed

Woodstoves - No woodstoves

Construction Off-road Equipment Mitigation - Fugitive dust control measures pursuant with SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - VOC control measures pursuant to SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Vehicle Trips - 6.65 Apartment ITE 220

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	200.00	285.00
tblConstructionPhase	NumDays	4.00	21.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	2.00	22.00
tblConstructionPhase	PhaseEndDate	3/29/2017	3/27/2017
tblConstructionPhase	PhaseStartDate	3/1/2017	2/27/2017
tblConstructionPhase	PhaseStartDate	1/28/2017	1/30/2017
tblGrading	AcresOfGrading	7.88	0.52
tblGrading	AcresOfGrading	11.00	0.52
tblGrading	MaterialExported	0.00	13,000.00
tblLandUse	LandUseSquareFeet	23,540.00	23,534.00
tblLandUse	LotAcreage	0.54	0.52
tblLandUse	LotAcreage	0.71	0.52
tblLandUse	Population	126.00	132.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	WD_TR	6.59	6.65

## 2.0 Emissions Summary

---



**2.2 Overall Operational  
Unmitigated Operational**

Category	tons/yr													MT/yr			
	CO <sub>2</sub> e	ROG	NOx	CO	SO <sub>2</sub>	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO <sub>2</sub>	NBio-CO <sub>2</sub>		Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
Area	0.4468	8.9600e-003	0.7337	4.6000e-004	0.0445	0.0445	0.0445	0.0445	0.0445	0.0445	0.0445	4.6736	9.7229	14.3966	0.0147	3.2000e-004	14.8030
Energy	1.7000e-003	0.0146	6.2000e-003	9.0000e-005	1.1800e-003	1.1800e-003	1.1800e-003	1.1800e-003	1.1800e-003	1.1800e-003	1.1800e-003	0.0000	176.4175	176.4175	4.4700e-003	1.1700e-003	176.8733
Mobile	0.1711	0.5447	2.0389	5.5300e-003	0.3783	7.8000e-003	0.3861	0.1012	7.1800e-003	0.1084	0.0000	414.7829	414.7829	414.7829	0.0156	0.0000	415.1108
Waste												4.1085	0.0000	4.1085	0.2428	0.0000	9.2075
Water												0.9095	29.0428	29.9523	0.0942	2.3600e-003	32.6621
Total	0.6195	0.5683	2.7788	6.0800e-003	0.3783	0.0535	0.4318	0.1012	0.0529	0.1541	9.6917	629.9660	639.6577	0.3717	3.8500e-003	648.6567	

**2.2 Overall Operational  
Mitigated Operational**

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	0.3036	5.3100e-003	0.4573	2.0000e-005	3.1600e-003	3.1600e-003	3.1600e-003	3.1500e-003	3.1500e-003	3.1500e-003	0.0000	10.2512	10.2512	9.2000e-004	1.7000e-004	10.3246
Energy	1.7000e-003	0.0146	6.2000e-003	9.0000e-005	1.1800e-003	1.1800e-003	1.1800e-003	1.1800e-003	1.1800e-003	1.1800e-003	0.0000	176.4175	176.4175	4.4700e-003	1.1700e-003	176.8733
Mobile	0.1711	0.5447	2.0389	5.5300e-003	0.3783	7.8000e-003	0.3861	7.1800e-003	0.1084	0.1084	0.0000	414.7829	414.7829	0.0156	0.0000	415.1108
Waste														0.1214	0.0000	4.6038
Water														0.0754	1.8900e-003	27.5436
Total	0.4764	0.5646	2.5024	5.6400e-003	0.3783	0.0121	0.3905	0.1012	0.0115	0.1128	2.7819	626.0978	628.8796	0.2178	3.2300e-003	634.4560

**3.0 Construction Detail**

**Construction Phase**

Percent Reduction	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
23.11	0.64	9.95	7.24	0.00	77.30	9.58	0.00	78.23	26.83	71.30	0.61	1.68	41.42	16.10	2.19	

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/30/2017	2/28/2017	5	22	
3	Grading	Grading	2/27/2017	3/27/2017	5	21	
4	Building Construction	Building Construction	3/28/2017	4/30/2018	5	285	
5	Paving	Paving	5/1/2018	6/11/2018	5	30	
6	Architectural Coating	Architectural Coating	6/12/2018	7/23/2018	5	30	

**Acres of Grading (Site Preparation Phase): 0.52**

**Acres of Grading (Grading Phase): 0.52**

**Acres of Paving: 0**

**Residential Indoor: 89,100; Residential Outdoor: 29,700; Non-Residential Indoor: 35,301; Non-Residential Outdoor: 11,767 (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
Site Preparation	Graders	1	8.00	174	0.41
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

**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	49.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	1,625.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	42.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 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					
Fugitive Dust					5.2700e-003	0.0000	5.2700e-003	8.0000e-004	0.0000	8.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0272	0.2659	0.2087	2.4000e-004		0.0161	0.0161		0.0150	0.0150	0.0000	22.2938	22.2938	5.6600e-003	0.0000	22.4126
<b>Total</b>	<b>0.0272</b>	<b>0.2659</b>	<b>0.2087</b>	<b>2.4000e-004</b>	<b>5.2700e-003</b>	<b>0.0161</b>	<b>0.0213</b>	<b>8.0000e-004</b>	<b>0.0150</b>	<b>0.0158</b>	<b>0.0000</b>	<b>22.2938</b>	<b>22.2938</b>	<b>5.6600e-003</b>	<b>0.0000</b>	<b>22.4126</b>

**3.2 Demolition - 2017**

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	4.1000e-004	6.5600e-003	5.1700e-003	2.0000e-005	4.2000e-004	1.0000e-004	5.2000e-004	1.2000e-004	9.0000e-005	2.0000e-004	0.0000	1.6250	1.6250	1.0000e-005	0.0000	1.6253
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.9000e-004	7.1800e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2850	1.2850	7.0000e-005	0.0000	1.2864
Total	8.8000e-004	7.2500e-003	0.0124	4.0000e-005	1.8500e-003	1.1000e-004	1.9600e-003	5.0000e-004	1.0000e-004	5.9000e-004	0.0000	2.9100	2.9100	8.0000e-005	0.0000	2.9116
tons/yr											MT/yr					

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					2.0500e-003	0.0000	2.0500e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0272	0.2659	0.2087				0.0161	0.0150		0.0150	0.0000	22.2938	22.2938	5.6600e-003	0.0000	22.4125
Total	0.0272	0.2659	0.2087		2.0500e-003	0.0161	0.0181	3.1000e-004	0.0150	0.0153	0.0000	22.2938	22.2938	5.6600e-003	0.0000	22.4125
tons/yr											MT/yr					

**3.2 Demolition - 2017**

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	4.1000e-004	6.5600e-003	5.1700e-003	2.0000e-005	4.2000e-004	1.0000e-004	5.2000e-004	1.2000e-004	9.0000e-005	2.0000e-004	0.0000	1.6250	1.6250	1.0000e-005	0.0000	1.6253
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	6.9000e-004	7.1800e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2850	1.2850	7.0000e-005	0.0000	1.2864
Total	8.8000e-004	7.2500e-003	0.0124	4.0000e-005	1.8500e-003	1.1000e-004	1.9600e-003	5.0000e-004	1.0000e-004	5.9000e-004	0.0000	2.9100	2.9100	8.0000e-005	0.0000	2.9116
tons/yr											MT/yr					

**3.3 Site Preparation - 2017**

**Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0582	0.0000	0.0582	0.0319	0.0000	0.0319	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2665	0.1752	1.9000e-004	0.0144	0.0144	0.0144	0.0132	0.0132	0.0132	0.0000	17.4845	17.4845	5.3600e-003	0.0000	17.5970
Total	0.0254	0.2665	0.1752	1.9000e-004	0.0582	0.0144	0.0726	0.0319	0.0132	0.0451	0.0000	17.4845	17.4845	5.3600e-003	0.0000	17.5970
tons/yr											MT/yr					

**3.3 Site Preparation - 2017  
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	4.7000e-004	4.8600e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8698	0.8698	4.0000e-005	0.0000	0.8708
<b>Total</b>	<b>3.2000e-004</b>	<b>4.7000e-004</b>	<b>4.8600e-003</b>	<b>1.0000e-005</b>	<b>9.7000e-004</b>	<b>1.0000e-005</b>	<b>9.7000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.8698</b>	<b>0.8698</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.8708</b>
tons/yr											MT/yr					

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0227	0.0000	0.0227	0.0124	0.0000	0.0124	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2665	0.1752			0.0144		0.0132		0.0132	0.0000	17.4845	17.4845	5.3600e-003	0.0000	17.5970
<b>Total</b>	<b>0.0254</b>	<b>0.2665</b>	<b>0.1752</b>	<b>0.0000</b>	<b>0.0227</b>	<b>0.0144</b>	<b>0.0227</b>	<b>0.0132</b>	<b>0.0132</b>	<b>0.0257</b>	<b>0.0000</b>	<b>17.4845</b>	<b>17.4845</b>	<b>5.3600e-003</b>	<b>0.0000</b>	<b>17.5970</b>
tons/yr											MT/yr					

**3.3 Site Preparation - 2017**  
**Mitigated Construction Off-Site**

Category	tons/yr															MT/yr	
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O		CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	4.7000e-004	4.8600e-003	1.0000e-005	9.7000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.6000e-004	2.6000e-004	0.0000	0.8698	0.8698	4.0000e-005	0.0000	0.0000	0.8708
Total	3.2000e-004	4.7000e-004	4.8600e-003	1.0000e-005	9.7000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.6000e-004	2.6000e-004	0.0000	0.8698	0.8698	4.0000e-005	0.0000	0.0000	0.8708

**3.4 Grading - 2017**  
**Unmitigated Construction On-Site**

Category	tons/yr															MT/yr	
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O		CO2e
Fugitive Dust					0.0484	0.0000	0.0484	0.0262	0.0000	0.0262	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.2078	0.1384	1.5000e-004	0.0112	0.0112	0.0112	0.0103	0.0103	0.0103	0.0000	13.7089	13.7089	4.2000e-003	0.0000	0.0000	13.7971
Total	0.0198	0.2078	0.1384	1.5000e-004	0.0484	0.0112	0.0596	0.0262	0.0103	0.0365	0.0000	13.7089	13.7089	4.2000e-003	0.0000	0.0000	13.7971

**3.4 Grading - 2017**

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0137	0.2175	0.1716	6.0000e-004	0.0139	3.1900e-003	0.0171	3.8200e-003	2.9300e-003	6.7500e-003	0.0000	53.8904	53.8904	3.9000e-004	0.0000	53.8986
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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-004	4.5000e-004	4.6400e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8303	0.8303	4.0000e-005	0.0000	0.8312
<b>Total</b>	<b>0.0140</b>	<b>0.2179</b>	<b>0.1763</b>	<b>6.1000e-004</b>	<b>0.0149</b>	<b>3.2000e-003</b>	<b>0.0181</b>	<b>4.0600e-003</b>	<b>2.9400e-003</b>	<b>7.0000e-003</b>	<b>0.0000</b>	<b>54.7207</b>	<b>54.7207</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>54.7297</b>
tons/yr											MT/yr					

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0189	0.0000	0.0189	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.2078	0.1384	1.5000e-004			0.0112	0.0103	0.0103	0.0103	0.0000	13.7089	13.7089	4.2000e-003	0.0000	13.7971
<b>Total</b>	<b>0.0198</b>	<b>0.2078</b>	<b>0.1384</b>	<b>1.5000e-004</b>	<b>0.0189</b>	<b>0.0000</b>	<b>0.0112</b>	<b>0.0103</b>	<b>0.0103</b>	<b>0.0205</b>	<b>0.0000</b>	<b>13.7089</b>	<b>13.7089</b>	<b>4.2000e-003</b>	<b>0.0000</b>	<b>13.7971</b>
tons/yr											MT/yr					

### 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	0.0137	0.2175	0.1716	6.0000e-004	0.0139	3.1900e-003	0.0171	3.8200e-003	2.9300e-003	6.7500e-003	0.0000	53.8904	53.8904	3.9000e-004	0.0000	53.8986
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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-004	4.5000e-004	4.6400e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8303	0.8303	4.0000e-005	0.0000	0.8312
<b>Total</b>	<b>0.0140</b>	<b>0.2179</b>	<b>0.1763</b>	<b>6.1000e-004</b>	<b>0.0149</b>	<b>3.2000e-003</b>	<b>0.0181</b>	<b>4.0600e-003</b>	<b>2.9400e-003</b>	<b>7.0000e-003</b>	<b>0.0000</b>	<b>54.7207</b>	<b>54.7207</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>54.7297</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	0.2940	1.9013	1.4240	2.1800e-003		0.1220	0.1220		0.1176	0.1176	0.0000	183.6246	183.6246	0.0385	0.0000	184.4337
<b>Total</b>	<b>0.2940</b>	<b>1.9013</b>	<b>1.4240</b>	<b>2.1800e-003</b>		<b>0.1220</b>	<b>0.1220</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>183.6246</b>	<b>183.6246</b>	<b>0.0385</b>	<b>0.0000</b>	<b>184.4337</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	7.2900e-003	0.0740	0.0989	1.9000e-004	5.5100e-003	1.1300e-003	6.6400e-003	1.5700e-003	1.0400e-003	2.6100e-003	0.0000	17.3777	17.3777	1.2000e-004	0.0000	17.3803	
Worker	0.0150	0.0222	0.2310	5.6000e-004	0.0459	3.8000e-004	0.0462	0.0122	3.5000e-004	0.0125	0.0000	41.3068	41.3068	2.1300e-003	0.0000	41.3516	
<b>Total</b>	<b>0.0223</b>	<b>0.0962</b>	<b>0.3299</b>	<b>7.5000e-004</b>	<b>0.0514</b>	<b>1.5100e-003</b>	<b>0.0529</b>	<b>0.0138</b>	<b>1.3900e-003</b>	<b>0.0151</b>	<b>0.0000</b>	<b>58.6845</b>	<b>58.6845</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>58.7319</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	0.2940	1.9013	1.4240	2.1800e-003		0.1220	0.1220		0.1176	0.1176	0.0000	183.6244	183.6244	0.0385	0.0000	184.4335
<b>Total</b>	<b>0.2940</b>	<b>1.9013</b>	<b>1.4240</b>	<b>2.1800e-003</b>		<b>0.1220</b>	<b>0.1220</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>183.6244</b>	<b>183.6244</b>	<b>0.0385</b>	<b>0.0000</b>	<b>184.4335</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	7.2900e-003	0.0740	0.0989	1.9000e-004	5.5100e-003	1.1300e-003	6.6400e-003	1.5700e-003	1.0400e-003	2.6100e-003	0.0000	17.3777	17.3777	1.2000e-004	0.0000	17.3803
Worker	0.0150	0.0222	0.2310	5.6000e-004	0.0459	3.8000e-004	0.0462	0.0122	3.5000e-004	0.0125	0.0000	41.3068	41.3068	2.1300e-003	0.0000	41.3516
<b>Total</b>	<b>0.0223</b>	<b>0.0962</b>	<b>0.3299</b>	<b>7.5000e-004</b>	<b>0.0514</b>	<b>1.5100e-003</b>	<b>0.0529</b>	<b>0.0138</b>	<b>1.3900e-003</b>	<b>0.0151</b>	<b>0.0000</b>	<b>58.6845</b>	<b>58.6845</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>58.7319</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	0.1111	0.7446	0.5949	9.4000e-004		0.0453	0.0453		0.0437	0.0437	0.0000	78.8532	78.8532	0.0158	0.0000	79.1857
<b>Total</b>	<b>0.1111</b>	<b>0.7446</b>	<b>0.5949</b>	<b>9.4000e-004</b>		<b>0.0453</b>	<b>0.0453</b>		<b>0.0437</b>	<b>0.0437</b>	<b>0.0000</b>	<b>78.8532</b>	<b>78.8532</b>	<b>0.0158</b>	<b>0.0000</b>	<b>79.1857</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	0.0000
Vendor	2.9500e-003	0.0294	0.0410	8.0000e-005	2.3800e-003	4.6000e-004	2.8400e-003	6.8000e-004	4.2000e-004	1.1000e-003	0.0000	7.3840	7.3840	5.0000e-005	0.0000	7.3851	
Worker	5.8300e-003	8.7100e-003	0.0904	2.4000e-004	0.0198	1.6000e-004	0.0200	5.2600e-003	1.5000e-004	5.4100e-003	0.0000	17.1849	17.1849	8.6000e-004	0.0000	17.2028	
<b>Total</b>	<b>8.7800e-003</b>	<b>0.0381</b>	<b>0.1313</b>	<b>3.2000e-004</b>	<b>0.0222</b>	<b>6.2000e-004</b>	<b>0.0228</b>	<b>5.9400e-003</b>	<b>5.7000e-004</b>	<b>6.5100e-003</b>	<b>0.0000</b>	<b>24.5688</b>	<b>24.5688</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>24.5879</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	0.1111	0.7446	0.5949	9.4000e-004		0.0453	0.0453		0.0437	0.0437	0.0000	78.8531	78.8531	0.0158	0.0000	79.1856
<b>Total</b>	<b>0.1111</b>	<b>0.7446</b>	<b>0.5949</b>	<b>9.4000e-004</b>		<b>0.0453</b>	<b>0.0453</b>		<b>0.0437</b>	<b>0.0437</b>	<b>0.0000</b>	<b>78.8531</b>	<b>78.8531</b>	<b>0.0158</b>	<b>0.0000</b>	<b>79.1856</b>

**3.5 Building Construction - 2018**  
**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9500e-003	0.0294	0.0410	8.0000e-005	2.3800e-003	4.6000e-004	2.8400e-003	6.8000e-004	4.2000e-004	1.1000e-003	0.0000	7.3840	7.3840	5.0000e-005	0.0000	7.3851
Worker	5.8300e-003	8.7100e-003	0.0904	2.4000e-004	0.0198	1.6000e-004	0.0200	5.2600e-003	1.5000e-004	5.4100e-003	0.0000	17.1849	17.1849	8.6000e-004	0.0000	17.2028
<b>Total</b>	<b>8.7800e-003</b>	<b>0.0381</b>	<b>0.1313</b>	<b>3.2000e-004</b>	<b>0.0222</b>	<b>6.2000e-004</b>	<b>0.0228</b>	<b>5.9400e-003</b>	<b>5.7000e-004</b>	<b>6.5100e-003</b>	<b>0.0000</b>	<b>24.5688</b>	<b>24.5688</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>24.5879</b>
tons/yr											MT/yr					

**3.6 Paving - 2018**

**Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0151	0.1546	0.1331	2.0000e-004	9.0400e-003	9.0400e-003	9.0400e-003	8.3300e-003	8.3300e-003	8.3300e-003	0.0000	18.0517	18.0517	5.5100e-003	0.0000	18.1675
Paving	0.0000							0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0151</b>	<b>0.1546</b>	<b>0.1331</b>	<b>2.0000e-004</b>	<b>9.0400e-003</b>	<b>9.0400e-003</b>	<b>9.0400e-003</b>	<b>8.3300e-003</b>	<b>8.3300e-003</b>	<b>8.3300e-003</b>	<b>0.0000</b>	<b>18.0517</b>	<b>18.0517</b>	<b>5.5100e-003</b>	<b>0.0000</b>	<b>18.1675</b>
tons/yr											MT/yr					

**3.6 Paving - 2018**

**Unmitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker		6.3000e-004	9.4000e-004	9.7600e-003	3.0000e-005	2.1400e-003	2.0000e-005	2.1600e-003	5.7000e-004	2.0000e-005	5.8000e-004	0.0000	1.8555	1.8555	9.0000e-005	0.0000	1.8575	1.8575
Total		6.3000e-004	9.4000e-004	9.7600e-003	3.0000e-005	2.1400e-003	2.0000e-005	2.1600e-003	5.7000e-004	2.0000e-005	5.8000e-004	0.0000	1.8555	1.8555	9.0000e-005	0.0000	1.8575	1.8575
tons/yr												MT/yr						

**Mitigated Construction On-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road		0.0151	0.1546	0.1331	2.0000e-004	9.0400e-003	9.0400e-003	9.0400e-003	8.3300e-003	8.3300e-003	8.3300e-003	0.0000	18.0517	18.0517	5.5100e-003	0.0000	18.1675	18.1675
Paving		0.0000				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0151	0.1546	0.1331	2.0000e-004	9.0400e-003	9.0400e-003	9.0400e-003	8.3300e-003	8.3300e-003	8.3300e-003	0.0000	18.0517	18.0517	5.5100e-003	0.0000	18.1675	18.1675
tons/yr												MT/yr						

**Mitigated Construction Off-Site**

**3.6 Paving - 2018**

Category	tons/yr														MT/yr		
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4		N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	9.4000e-004	9.7600e-003	3.0000e-005	2.1400e-003	2.0000e-005	2.1600e-003	5.7000e-004	2.0000e-005	5.8000e-004	0.0000	1.8555	1.8555	9.0000e-005	0.0000	1.8575	1.8575
<b>Total</b>	<b>6.3000e-004</b>	<b>9.4000e-004</b>	<b>9.7600e-003</b>	<b>3.0000e-005</b>	<b>2.1400e-003</b>	<b>2.0000e-005</b>	<b>2.1600e-003</b>	<b>5.7000e-004</b>	<b>2.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>1.8555</b>	<b>1.8555</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.8575</b>	<b>1.8575</b>

**3.7 Architectural Coating - 2018**  
**Unmitigated Construction On-Site**

Category	tons/yr														MT/yr		
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4		N2O	CO2e
Archit. Coating	0.4448				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4800e-003	0.0301	0.0278	4.0000e-005	2.2600e-003	2.2600e-003	2.2600e-003	2.2600e-003	2.2600e-003	2.2600e-003	0.0000	3.8299	3.8299	3.6000e-004	0.0000	3.8375	3.8375
<b>Total</b>	<b>0.4493</b>	<b>0.0301</b>	<b>0.0278</b>	<b>4.0000e-005</b>	<b>2.2600e-003</b>	<b>2.2600e-003</b>	<b>2.2600e-003</b>	<b>2.2600e-003</b>	<b>2.2600e-003</b>	<b>2.2600e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.8375</b>	<b>3.8375</b>

**3.7 Architectural Coating - 2018  
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	5.8000e-004	6.0100e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1419	1.1419	6.0000e-005	0.0000	1.1431
<b>Total</b>	<b>3.9000e-004</b>	<b>5.8000e-004</b>	<b>6.0100e-003</b>	<b>2.0000e-005</b>	<b>1.3200e-003</b>	<b>1.0000e-005</b>	<b>1.3300e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.1419</b>	<b>1.1419</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1431</b>
tons/yr											MT/yr					

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	0.4448				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4800e-003	0.0301	0.0278	4.0000e-005	2.2600e-003	2.2600e-003	2.2600e-003	2.2600e-003	2.2600e-003	2.2600e-003	0.0000	3.8299	3.8299	3.6000e-004	0.0000	3.8375
<b>Total</b>	<b>0.4493</b>	<b>0.0301</b>	<b>0.0278</b>	<b>4.0000e-005</b>	<b>2.2600e-003</b>	<b>2.2600e-003</b>	<b>2.2600e-003</b>	<b>2.2600e-003</b>	<b>2.2600e-003</b>	<b>2.2600e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.8375</b>
tons/yr											MT/yr					

### 3.7 Architectural Coating - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	5.8000e-004	6.0100e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1419	1.1419	6.0000e-005	0.0000	1.1431
<b>Total</b>	<b>3.9000e-004</b>	<b>5.8000e-004</b>	<b>6.0100e-003</b>	<b>2.0000e-005</b>	<b>1.3200e-003</b>	<b>1.0000e-005</b>	<b>1.3300e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.1419</b>	<b>1.1419</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1431</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	0.1711	0.5447	2.0389	5.5300e-003	0.3783	7.8000e-003	0.3861	0.1012	7.1800e-003	0.1084	0.0000	414.7829	414.7829	0.0156	0.0000	415.1108
Unmitigated	0.1711	0.5447	2.0389	5.5300e-003	0.3783	7.8000e-003	0.3861	0.1012	7.1800e-003	0.1084	0.0000	414.7829	414.7829	0.0156	0.0000	415.1108



### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	292.60	315.04	267.08	998,355	998,355
Enclosed Parking with Elevator	0.00	0.00	0.00		
<b>Total</b>	<b>292.60</b>	<b>315.04</b>	<b>267.08</b>	<b>998,355</b>	<b>998,355</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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512137	0.059943	0.180601	0.139123	0.042256	0.006647	0.016115	0.031670	0.001940	0.002502	0.004362	0.000588	0.002117

### 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	159.5451	159.5451	4.1500e-003	8.6000e-004	159.8983
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	159.5451	159.5451	4.1500e-003	8.6000e-004	159.8983
NaturalGas Mitigated	1.7000e-003	0.0146	6.2000e-003	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8724	16.8724	3.2000e-004	3.1000e-004	16.9750
NaturalGas Unmitigated	1.7000e-003	0.0146	6.2000e-003	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8724	16.8724	3.2000e-004	3.1000e-004	16.9750

**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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Apartments High Rise	316176	1.7000e-003	0.0146	6.2000e-003	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8724	16.8724	3.2000e-004	3.1000e-004	16.9750
<b>Total</b>		<b>1.7000e-003</b>	<b>0.0146</b>	<b>6.2000e-003</b>	<b>9.0000e-005</b>		<b>1.1800e-003</b>	<b>1.1800e-003</b>		<b>1.1800e-003</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>16.8724</b>	<b>16.8724</b>	<b>3.2000e-004</b>	<b>3.1000e-004</b>	<b>16.9750</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 High Rise	316176	1.7000e-003	0.0146	6.2000e-003	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8724	16.8724	3.2000e-004	3.1000e-004	16.9750
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.7000e-003</b>	<b>0.0146</b>	<b>6.2000e-003</b>	<b>9.0000e-005</b>		<b>1.1800e-003</b>	<b>1.1800e-003</b>		<b>1.1800e-003</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>16.8724</b>	<b>16.8724</b>	<b>3.2000e-004</b>	<b>3.1000e-004</b>	<b>16.9750</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	156746	79.2989	2.0600e-003	4.3000e-004	79.4744
Enclosed Parking with Elevator	158619	80.2463	2.0900e-003	4.3000e-004	80.4239
<b>Total</b>		<b>159.5451</b>	<b>4.1500e-003</b>	<b>8.6000e-004</b>	<b>159.8983</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	156746	79.2989	2.0600e-003	4.3000e-004	79.4744
Enclosed Parking with Elevator	158619	80.2463	2.0900e-003	4.3000e-004	80.4239
<b>Total</b>		<b>159.5451</b>	<b>4.1500e-003</b>	<b>8.6000e-004</b>	<b>159.8983</b>

## 6.0 Area Detail

---

### 6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use only Natural Gas Hearths
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3036	5.3100e-003	0.4573	2.0000e-005		3.1600e-003	3.1600e-003		3.1500e-003	3.1500e-003	0.0000	10.2512	10.2512	9.2000e-004	1.7000e-004	10.3246
Unmitigated	0.4468	8.9600e-003	0.7337	4.6000e-004		0.0445	0.0445		0.0445	0.0445	4.6736	9.7229	14.3966	0.0147	3.2000e-004	14.8030

## 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	0.0445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2440					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1441	3.6600e-003	0.2765	4.4000e-004		0.0420	0.0420		0.0420	0.0420	4.6736	8.9811	13.6548	0.0139	3.2000e-004	14.0458
Landscaping	0.0141	5.3100e-003	0.4573	2.0000e-005		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	0.7418	0.7418	7.4000e-004	0.0000	0.7573
<b>Total</b>	<b>0.4468</b>	<b>8.9700e-003</b>	<b>0.7337</b>	<b>4.6000e-004</b>		<b>0.0445</b>	<b>0.0445</b>		<b>0.0445</b>	<b>0.0445</b>	<b>4.6736</b>	<b>9.7229</b>	<b>14.3966</b>	<b>0.0147</b>	<b>3.2000e-004</b>	<b>14.8031</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	0.0445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2440					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	9.6000e-004	0.0000	5.0000e-005	0.0000		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.5094	9.5094	1.8000e-004	1.7000e-004	9.5673	
Landscaping	0.0141	5.3100e-003	0.4573	2.0000e-005		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	0.7418	0.7418	7.4000e-004	0.0000	0.7573	
<b>Total</b>	<b>0.3036</b>	<b>5.3100e-003</b>	<b>0.4573</b>	<b>2.0000e-005</b>		<b>3.1600e-003</b>	<b>3.1600e-003</b>		<b>3.1600e-003</b>	<b>3.1600e-003</b>	<b>0.0000</b>	<b>10.2512</b>	<b>10.2512</b>	<b>9.2000e-004</b>	<b>1.7000e-004</b>	<b>10.3246</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

Use Water Efficient Irrigation System

**7.2 Water by Land Use**  
**Unmitigated**

Category				MT/yr					
	Total CO2	CH4	N2O	CO2e		Total CO2	CH4	N2O	CO2e
Mitigated	25.3738	0.0754	1.8900e-003	27.5436					
Unmitigated	29.9523	0.0942	2.3600e-003	32.6621					

Land Use				Mgal						
	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e		Total CO2	CH4	N2O	CO2e
Apartment's High Rise	2.86678 /	29.9523	0.0942	2.3600e-003	32.6621					
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000					
<b>Total</b>		<b>29.9523</b>	<b>0.0942</b>	<b>2.3600e-003</b>	<b>32.6621</b>					

**7.2 Water by Land Use**  
**Mitigated**

Indoor/Outdoor Use	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Land Use	Mgal	MT/yr		
Apartments High Rise	2.29342 / 1.69707	25.3738	0.0754	1.8900e-003
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000
Total		25.3738	0.0754	1.8900e-003
				27.5436

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**Category/Year**

Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Mitigated	2.0543	0.1214	0.0000
Unmitigated	4.1085	0.2428	0.0000
			4.6038
			9.2075



**8.2 Waste by Land Use**  
**Unmitigated**

Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr		
Apartment's High Rise	20.24	4.1085	0.2428	9.2075
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.1085</b>	<b>0.2428</b>	<b>9.2075</b>

**Mitigated**

Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr		
Apartment's High Rise	10.12	2.0543	0.1214	4.6038
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.0543</b>	<b>0.1214</b>	<b>4.6038</b>

**9.0 Operational Offroad**

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

## **10.0 Vegetation**

---

**Kenwood Project**  
**South Coast Air Basin, Summer**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	23.54	1000sqft	0.52	23,534.00	0
Apartments High Rise	44.00	Dwelling Unit	0.52	44,000.00	132

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	12			<b>Operational Year</b>	2018
<b>Utility Company</b>	Glendale Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1115.33	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - The project would develop 44 multifamily residential units, or approximately .52 acre.

Construction Phase - Construction would take approximately 20 months and would involve demolition, site preparation/grading, and building construction.

Demolition -

Grading - .52-acre, would be disturbed

Woodstoves - No woodstoves

Construction Off-road Equipment Mitigation - Fugitive dust control measures pursuant with SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - VOC control measures pursuant to SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Vehicle Trips - 6.65 Apartment ITE 220

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	200.00	285.00
tblConstructionPhase	NumDays	4.00	21.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	2.00	22.00
tblConstructionPhase	PhaseEndDate	3/29/2017	3/27/2017
tblConstructionPhase	PhaseStartDate	3/1/2017	2/27/2017
tblConstructionPhase	PhaseStartDate	1/28/2017	1/30/2017
tblGrading	AcresOfGrading	7.88	0.52
tblGrading	AcresOfGrading	11.00	0.52
tblGrading	MaterialExported	0.00	13,000.00
tblLandUse	LandUseSquareFeet	23,540.00	23,534.00
tblLandUse	LotAcreage	0.54	0.52
tblLandUse	LotAcreage	0.71	0.52
tblLandUse	Population	126.00	132.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	WD_TR	6.59	6.65

## 2.0 Emissions Summary

---



**2.2 Overall Operational  
Unmitigated Operational**

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
Area	13.2234	0.3350	25.7744	0.0354	3.3811	3.3811	3.3811	3.3805	3.3805	3.3805	412.1444	798.5415	1,210.685	1.2356	0.0280	1,245.304
Energy	9.3400e-003	0.0798	0.0340	5.1000e-004	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	101.9101	101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
Mobile	1.0343	3.0104	12.1863	0.0341	2.2831	2.2831	2.3293	0.6100	0.0426	0.6526	2,814.770	2,814.770	2,814.770	0.1021		2,816.914
Total	14.2670	3.4252	37.9946	0.0700	2.2831	3.4337	5.7168	6.6100	3.4295	4.0396	412.1444	3,715.222	4,127.366	1.3396	0.0298	4,164.749

**Mitigated Operational**

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
Area	1.7707	0.0425	3.6624	1.9000e-004	0.0731	0.0731	0.0731	0.0725	0.0725	0.0725	0.0000	845.1297	845.1297	0.0226	0.0154	850.3695
Energy	9.3400e-003	0.0798	0.0340	5.1000e-004	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	101.9101	101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
Mobile	1.0343	3.0104	12.1863	0.0341	2.2831	2.2831	2.3293	0.6100	0.0426	0.6526	2,814.770	2,814.770	2,814.770	0.1021		2,816.914
Total	2.8143	3.1327	15.8826	0.0348	2.2831	2.2831	2.4088	0.6100	0.1215	0.7315	0.0000	3,761.810	3,761.810	0.1266	0.0172	3,769.813

	ROG	NOx	CO	SO2	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	80.27	8.54	58.20	50.26	0.00	96.34	57.86	0.00	96.46	81.89	100.00	-1.25	8.86	90.55	42.23	9.48

### 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	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/30/2017	2/28/2017	5	22	
3	Grading	Grading	2/27/2017	3/27/2017	5	21	
4	Building Construction	Building Construction	3/28/2017	4/30/2018	5	285	
5	Paving	Paving	5/1/2018	6/11/2018	5	30	
6	Architectural Coating	Architectural Coating	6/12/2018	7/23/2018	5	30	

Acres of Grading (Site Preparation Phase): 0.52

Acres of Grading (Grading Phase): 0.52

Acres of Paving: 0

Residential Indoor: 89,100; Residential Outdoor: 29,700; Non-Residential Indoor: 35,301; Non-Residential Outdoor: 11,767 (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
Site Preparation	Graders	1	8.00	174	0.41
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

**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	49.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	1,625.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	42.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 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					
Fugitive Dust					0.5266	0.0000	0.5266	0.0797	0.0000	0.0797			0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022		2,457.468 2	2,457.468 2	0.6235		2,470.562 0
<b>Total</b>	<b>2.7216</b>	<b>26.5855</b>	<b>20.8712</b>	<b>0.0245</b>	<b>0.5266</b>	<b>1.6062</b>	<b>2.1328</b>	<b>0.0797</b>	<b>1.5022</b>	<b>1.5820</b>		<b>2,457.468 2</b>	<b>2,457.468 2</b>	<b>0.6235</b>		<b>2,470.562 0</b>

**3.2 Demolition - 2017**

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0399	0.6223	0.4573	1.8100e-003	0.0427	9.6000e-003	0.0523	0.0117	8.8300e-003	0.0205	179.3050	179.3050	1.2800e-003	179.3318		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.0487	0.0611	0.7632	1.8400e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396	148.7275	148.7275	7.3200e-003	148.8811		0.0000
Total	0.0886	0.6834	1.2204	3.6500e-003	0.1880	0.0108	0.1988	0.0502	9.9100e-003	0.0601	328.0324	328.0324	8.6000e-003	328.2130		0.0000

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2054	0.0000	0.2054	0.0311	0.0000	0.0311			0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022	2.457.468	2.457.468	0.6235	2.470.562		0.0000
Total	2.7216	26.5855	20.8712	0.0245	0.2054	1.6062	1.8116	0.0311	1.5022	1.5333	0.0000	2.457.468	2.457.468	0.6235		2.470.562

**3.2 Demolition - 2017**

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0399	0.6223	0.4573	1.8100e-003	0.0427	9.6000e-003	0.0523	0.0117	8.8300e-003	0.0205		179.3050	179.3050	1.2800e-003		179.3318
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0487	0.0611	0.7632	1.8400e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.7275	148.7275	7.3200e-003		148.8811
Total	0.0886	0.6834	1.2204	3.6500e-003	0.1880	0.0108	0.1988	0.0502	9.9100e-003	0.0601		328.0324	328.0324	8.6000e-003		328.2130
lb/day																

**3.3 Site Preparation - 2017**

**Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					5.2944	0.0000	5.2944	2.8992	0.0000	2.8992			0.0000			0.0000
Off-Road	2.3109	24.2288	15.9299	0.0171		1.3067	1.3067		1.2022	1.2022		1,752.123	1,752.123	0.5369		1,763.397
Total	2.3109	24.2288	15.9299	0.0171	5.2944	0.0000	5.2944	2.8992	0.0000	2.8992		1,752.123	1,752.123	0.5369		1,763.397
lb/day																

**3.3 Site Preparation - 2017**

**Unmitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0299	0.0376	0.4696	1.1300e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244	91.5246	91.5246	91.5246	4.5000e-003	91.6192		91.6192
<b>Total</b>	<b>0.0299</b>	<b>0.0376</b>	<b>0.4696</b>	<b>1.1300e-003</b>	<b>0.0894</b>	<b>7.2000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.6000e-004</b>	<b>0.0244</b>	<b>91.5246</b>	<b>91.5246</b>	<b>91.5246</b>	<b>4.5000e-003</b>	<b>91.6192</b>		<b>91.6192</b>
lb/day																	

**Mitigated Construction On-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	2.0648	2.0648	1.1307	0.0000	0.0000	1.1307	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3109	24.2288	15.9299	0.0171	1.3067	1.3067	3.3715	1.1307	1.2022	1.2022	2.3329	0.0000	1,752.123	1,752.123	0.5369	1,763.397	1,763.397
<b>Total</b>	<b>2.3109</b>	<b>24.2288</b>	<b>15.9299</b>	<b>0.0171</b>	<b>1.3067</b>	<b>2.0648</b>	<b>3.3715</b>	<b>1.1307</b>	<b>1.2022</b>	<b>1.2022</b>	<b>2.3329</b>	<b>0.0000</b>	<b>1,752.123</b>	<b>1,752.123</b>	<b>0.5369</b>	<b>1,763.397</b>	<b>1,763.397</b>
lb/day																	

**3.3 Site Preparation - 2017**

**Mitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker		0.0299	0.0376	0.4696	1.1300e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244	91.5246	91.5246	91.5246	4.5000e-003		91.6192
Total		0.0299	0.0376	0.4696	1.1300e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244	91.5246	91.5246	91.5246	4.5000e-003		91.6192
lb/day																	

**3.4 Grading - 2017**

**Unmitigated Construction On-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust		0.0000	0.0000	0.0000	0.0000	4.6128	0.0000	4.6128	2.4961	0.0000	2.4961	0.0000	0.0000	0.0000			0.0000
Off-Road		1.8844	19.7889	13.1786	0.0141		1.0661	1.0661		0.9808	0.9808	1,439,189	1,439,189	1,439,189	0.4410		1,448,449
Total		1.8844	19.7889	13.1786	0.0141	4.6128	1.0661	5.6790	2.4961	0.9808	3.4769	1,439,189	1,439,189	1,439,189	0.4410		1,448,449
lb/day																	

**3.4 Grading - 2017**

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	1.2611	19.6537	14.4426	0.0571	1.3482	0.3032	1.6515	0.3692	0.2789	0.6481	5,663,178	5,663,178	0.4404			5,664,028
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Worker	0.0299	0.0376	0.4696	1.1300e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244	91,5246	91,5246	4.5000e-003			91,6192
<b>Total</b>	<b>1.2910</b>	<b>19.6913</b>	<b>14.9123</b>	<b>0.0582</b>	<b>1.4376</b>	<b>0.3039</b>	<b>1.7416</b>	<b>0.3929</b>	<b>0.2796</b>	<b>0.6725</b>	<b>5,754,703</b>	<b>5,754,703</b>	<b>5,754,703</b>	<b>0.4419</b>		<b>5,755,647</b>

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					1.7990	0.0000	1.7990	0.9735	0.0000	0.9735			0.0000			0.0000
Off-Road	1.8844	19.7889	13.1786		0.0141				0.9808	1.0661	1,439,189	1,439,189	0.4410			1,448,449
<b>Total</b>	<b>1.8844</b>	<b>19.7889</b>	<b>13.1786</b>		<b>0.0141</b>		<b>1.7990</b>	<b>0.9735</b>	<b>0.9808</b>	<b>2.8651</b>	<b>0.0000</b>	<b>1,439,189</b>	<b>1,439,189</b>	<b>0.4410</b>		<b>1,448,449</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	1.2611	19.6537	14.4426	0.0571	1.3482	0.3032	1.6515	0.3692	0.2789	0.6481		5,663.1787	5,663.1787	0.0404		5,664.0280
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0299	0.0376	0.4696	1.1300e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		91.5246	91.5246	4.5000e-003		91.6192
<b>Total</b>	<b>1.2910</b>	<b>19.6913</b>	<b>14.9123</b>	<b>0.0582</b>	<b>1.4376</b>	<b>0.3039</b>	<b>1.7416</b>	<b>0.3929</b>	<b>0.2796</b>	<b>0.6725</b>		<b>5,754.7033</b>	<b>5,754.7033</b>	<b>0.0449</b>		<b>5,755.6472</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	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497
<b>Total</b>	<b>2.9546</b>	<b>19.1088</b>	<b>14.3110</b>	<b>0.0220</b>		<b>1.2257</b>	<b>1.2257</b>		<b>1.1823</b>	<b>1.1823</b>		<b>2,034.2860</b>	<b>2,034.2860</b>	<b>0.4268</b>		<b>2,043.2497</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	0.0689	0.7117	0.8443	1.9600e-003	0.0563	0.0113	0.0676	0.0160	0.0104	0.0264		193.2004	193.2004	1.3600e-003		193.2291
Worker	0.1572	0.1975	2.4656	5.9500e-003	0.4695	3.7800e-003	0.4732	0.1245	3.4800e-003	0.1280		480.5042	480.5042	0.0236		481.0006
<b>Total</b>	<b>0.2261</b>	<b>0.9092</b>	<b>3.3098</b>	<b>7.9100e-003</b>	<b>0.5257</b>	<b>0.0151</b>	<b>0.5408</b>	<b>0.1405</b>	<b>0.0139</b>	<b>0.1544</b>		<b>673.7046</b>	<b>673.7046</b>	<b>0.0250</b>		<b>674.2296</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	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823	0.0000	2,034.2860	2,034.2860	0.4268		2,043.2497
<b>Total</b>	<b>2.9546</b>	<b>19.1088</b>	<b>14.3110</b>	<b>0.0220</b>		<b>1.2257</b>	<b>1.2257</b>		<b>1.1823</b>	<b>1.1823</b>	<b>0.0000</b>	<b>2,034.2860</b>	<b>2,034.2860</b>	<b>0.4268</b>		<b>2,043.2497</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	0.0689	0.7117	0.8443	1.9600e-003	0.0563	0.0113	0.0676	0.0160	0.0104	0.0264		193.2004	193.2004	1.3600e-003			193.2291
Worker	0.1572	0.1975	2.4656	5.9500e-003	0.4695	3.7800e-003	0.4732	0.1245	3.4800e-003	0.1280		480.5042	480.5042	0.0236			481.0006
<b>Total</b>	<b>0.2261</b>	<b>0.9092</b>	<b>3.3098</b>	<b>7.9100e-003</b>	<b>0.5257</b>	<b>0.0151</b>	<b>0.5408</b>	<b>0.1405</b>	<b>0.0139</b>	<b>0.1544</b>		<b>673.7046</b>	<b>673.7046</b>	<b>0.0250</b>			<b>674.2296</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	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172		2,021.4136	2,021.4136	0.4059			2,029.9373
<b>Total</b>	<b>2.5826</b>	<b>17.3173</b>	<b>13.8357</b>	<b>0.0220</b>		<b>1.0532</b>	<b>1.0532</b>		<b>1.0172</b>	<b>1.0172</b>		<b>2,021.4136</b>	<b>2,021.4136</b>	<b>0.4059</b>			<b>2,029.9373</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	0.0646	0.6536	0.8044	1.9500e-003	0.0563	0.0107	0.0669	0.0160	9.8200e-003	0.0258		189.9606	189.9606	1.3500e-003			189.9891
Worker	0.1417	0.1792	2.2402	5.9400e-003	0.4695	3.6800e-003	0.4731	0.1245	3.4000e-003	0.1279		462.6248	462.6248	0.0219			463.0855
<b>Total</b>	<b>0.2064</b>	<b>0.8327</b>	<b>3.0446</b>	<b>7.8900e-003</b>	<b>0.5257</b>	<b>0.0144</b>	<b>0.5401</b>	<b>0.1405</b>	<b>0.0132</b>	<b>0.1537</b>		<b>652.5854</b>	<b>652.5854</b>	<b>0.0233</b>			<b>653.0746</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	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172	0.0000	2,021.4136	2,021.4136	0.4059			2,029.9373
<b>Total</b>	<b>2.5826</b>	<b>17.3173</b>	<b>13.8357</b>	<b>0.0220</b>		<b>1.0532</b>	<b>1.0532</b>		<b>1.0172</b>	<b>1.0172</b>	<b>0.0000</b>	<b>2,021.4136</b>	<b>2,021.4136</b>	<b>0.4059</b>			<b>2,029.9373</b>

**3.5 Building Construction - 2018**  
**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0646	0.6536	0.8044	1.9500e-003	0.0563	0.0107	0.0669	0.0160	9.8200e-003	0.0258	189.9606	189.9606	1.3500e-003			189.9891
Worker	0.1417	0.1792	2.2402	5.9400e-003	0.4695	3.6800e-003	0.4731	0.1245	3.4000e-003	0.1279	462.6248	462.6248	0.0219			463.0855
Total	0.2064	0.8327	3.0446	7.8900e-003	0.5257	0.0144	0.5401	0.1405	0.0132	0.1537	652.5854	652.5854	0.0233			653.0746
lb/day																

**3.6 Paving - 2018**

**Unmitigated Construction On-Site**

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

**3.6 Paving - 2018**

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0439	0.0555	0.6934	1.8400e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396	143.1934	143.1934	143.1934	6.7900e-003		143.3360
<b>Total</b>	<b>0.0439</b>	<b>0.0555</b>	<b>0.6934</b>	<b>1.8400e-003</b>	<b>0.1453</b>	<b>1.1400e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0500e-003</b>	<b>0.0396</b>			<b>143.1934</b>	<b>6.7900e-003</b>		<b>143.3360</b>
lb/day																

**Mitigated Construction On-Site**

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

**3.6 Paving - 2018**

**Mitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0439	0.0555	0.6934	1.8400e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396	143.1934	143.1934	143.1934	143.1934	6.7900e-003		143.3360
Total	0.0439	0.0555	0.6934	1.8400e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396	143.1934	143.1934	143.1934	143.1934	6.7900e-003		143.3360
lb/day																	

**3.7 Architectural Coating - 2018**

**Unmitigated Construction On-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	29.6516					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506	0.1506	0.1506	0.1506	0.1506			281.4485	0.0267		282.0102
Total	29.9503	2.0058	1.8542	2.9700e-003		0.0000	0.0000	0.0000	0.1506	0.1506	0.1506			281.4485	0.0267		282.0102
lb/day																	

**3.7 Architectural Coating - 2018  
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0341	0.4267	1.1300e-003	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244	88.1190	88.1190	88.1190	4.1800e-003		88.2068
<b>Total</b>	<b>0.0270</b>	<b>0.0341</b>	<b>0.4267</b>	<b>1.1300e-003</b>	<b>0.0894</b>	<b>7.0000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.5000e-004</b>	<b>0.0244</b>			<b>88.1190</b>	<b>4.1800e-003</b>		<b>88.2068</b>
lb/day																

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	29.6516				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003	0.1506	0.1506	0.1506	0.1506	0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>29.9503</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>	<b>0.1506</b>	<b>0.1506</b>	<b>0.1506</b>	<b>0.1506</b>	<b>0.1506</b>	<b>0.1506</b>	<b>0.0000</b>	<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</b>
lb/day																

### 3.7 Architectural Coating - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0270	0.0341	0.4267	1.1300e-003	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		88.1190	88.1190	4.1800e-003			88.2068
<b>Total</b>	<b>0.0270</b>	<b>0.0341</b>	<b>0.4267</b>	<b>1.1300e-003</b>	<b>0.0894</b>	<b>7.0000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.5000e-004</b>	<b>0.0244</b>		<b>88.1190</b>	<b>88.1190</b>	<b>4.1800e-003</b>			<b>88.2068</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	1.0343	3.0104	12.1863	0.0341	2.2831	0.0462	2.3293	0.6100	0.0426	0.6526		2,814.7705	2,814.7705	0.1021			2,816.9140
Unmitigated	1.0343	3.0104	12.1863	0.0341	2.2831	0.0462	2.3293	0.6100	0.0426	0.6526		2,814.7705	2,814.7705	0.1021			2,816.9140



#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	292.60	315.04	267.08	998,355	998,355
Enclosed Parking with Elevator	0.00	0.00	0.00		
<b>Total</b>	<b>292.60</b>	<b>315.04</b>	<b>267.08</b>	<b>998,355</b>	<b>998,355</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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512137	0.059943	0.180601	0.139123	0.042256	0.006647	0.016115	0.031670	0.001940	0.002502	0.004362	0.000588	0.002117

#### 5.0 Energy Detail

##### 4.4 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

**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	lb/day					Land Use	KBTU/yr	
											Bio- CO2	NBio- CO2	Total CO2	CH4	N2O			CO2e
Apartments High Rise	866,236	9.3400e-003	0.0798	0.0340	5.1000e-004	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303	Apartments High Rise	866,236
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Enclosed Parking with Elevator	0
<b>Total</b>																	<b>Total</b>	

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	lb/day					Category	
											Bio- CO2	NBio- CO2	Total CO2	CH4	N2O		CO2e
NaturalGas Mitigated	9.3400e-003	0.0798	0.0340	5.1000e-004	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303	NaturalGas Mitigated
NaturalGas Unmitigated	9.3400e-003	0.0798	0.0340	5.1000e-004	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303	NaturalGas 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
Category	lb/day										lb/day					
Mitigated	1.7707	0.0425	3.6624	1.9000e-004		0.0731	0.0731		0.0725	0.0725	0.0000	845.1297	845.1297	0.0226	0.0154	850.3695
Unmitigated	13.2234	0.3350	25.7744	0.0354		3.3811	3.3811		3.3805	3.3805	412.1444	798.5415	1,210.6859	1.2356	0.0280	1,245.3049

## 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	0.2437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3372					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	11.5296	0.2925	22.1162	0.0352		3.3611	3.3611		3.3606	3.3606	412.1444	792.0000	1,204.1444	1.2291	0.0280	1,238.6272
Landscaping	0.1129	0.0425	3.6582	1.9000e-004		0.0200	0.0200		0.0200	0.0200		6.5415	6.5415	6.4900e-003		6.6778
<b>Total</b>	<b>13.2234</b>	<b>0.3350</b>	<b>25.7744</b>	<b>0.0354</b>		<b>3.3811</b>	<b>3.3811</b>		<b>3.3805</b>	<b>3.3805</b>	<b>412.1444</b>	<b>798.5415</b>	<b>1,210.6859</b>	<b>1.2356</b>	<b>0.0280</b>	<b>1,245.3049</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	0.2437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3372					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0769	0.0000	4.1900e-003	0.0000		0.0531	0.0531		0.0526	0.0526	0.0000	838.5882	838.5882	0.0161	0.0154	843.6917
Landscaping	0.1129	0.0425	3.6582	1.9000e-004		0.0200	0.0200		0.0200	0.0200		6.5415	6.5415	6.4900e-003		6.6778
<b>Total</b>	<b>1.7707</b>	<b>0.0425</b>	<b>3.6624</b>	<b>1.9000e-004</b>		<b>0.0731</b>	<b>0.0731</b>		<b>0.0725</b>	<b>0.0725</b>	<b>0.0000</b>	<b>845.1297</b>	<b>845.1297</b>	<b>0.0226</b>	<b>0.0154</b>	<b>850.3695</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
- Use Water Efficient Irrigation System

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

## 9.0 Operational Offroad

---

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

## 10.0 Vegetation

---

**Kenwood Project**  
**South Coast Air Basin, Winter**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	23.54	1000sqft	0.52	23,534.00	0
Apartments High Rise	44.00	Dwelling Unit	0.52	44,000.00	132

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	12			<b>Operational Year</b>	2018
<b>Utility Company</b>	Glendale Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1115.33	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics -

Land Use - The project would develop 44 multifamily residential units, or approximately .52 acre.

Construction Phase - Construction would take approximately 20 months and would involve demolition, site preparation/grading, and building construction.

Demolition -

Grading - .52-acre, would be disturbed

Woodstoves - No woodstoves

Construction Off-road Equipment Mitigation - Fugitive dust control measures pursuant with SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - VOC control measures pursuant to SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Vehicle Trips - 6.65 Apartment ITE 220



Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	200.00	285.00
tblConstructionPhase	NumDays	4.00	21.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	2.00	22.00
tblConstructionPhase	PhaseEndDate	3/29/2017	3/27/2017
tblConstructionPhase	PhaseStartDate	3/1/2017	2/27/2017
tblConstructionPhase	PhaseStartDate	1/28/2017	1/30/2017
tblGrading	AcresOfGrading	7.88	0.52
tblGrading	AcresOfGrading	11.00	0.52
tblGrading	MaterialExported	0.00	13,000.00
tblLandUse	LandUseSquareFeet	23,540.00	23,534.00
tblLandUse	LotAcreage	0.54	0.52
tblLandUse	LotAcreage	0.71	0.52
tblLandUse	Population	126.00	132.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	WD_TR	6.59	6.65

## 2.0 Emissions Summary

---



**2.2 Overall Operational  
Unmitigated Operational**

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
Area	13.2234	0.3350	25.7744	0.0354		3.3811	3.3811		3.3805	3.3805	412.1444	798.5415	1,210.685	1.2356	0.0280	1,245.304
Energy	9.3400e-003	0.0798	0.0340	5.1000e-004	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	101.9101	101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
Mobile	1.0648	3.1648	11.9551	0.0324	2.2831	0.0463	2.3295	0.6100	0.0427	0.6527	2,679.582	2,679.582	2,679.582	0.1022		2,681.727
<b>Total</b>	<b>14.2975</b>	<b>3.5796</b>	<b>37.7635</b>	<b>0.0683</b>	<b>2.2831</b>	<b>3.4338</b>	<b>5.7170</b>	<b>0.6100</b>	<b>3.4297</b>	<b>4.0397</b>	<b>412.1444</b>	<b>3,580.033</b>	<b>3,992.177</b>	<b>1.3397</b>	<b>0.0298</b>	<b>4,029.562</b>

**Mitigated Operational**

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
Area	1.7707	0.0425	3.6624	1.9000e-004		0.0731	0.0731		0.0725	0.0725	0.0000	845.1297	845.1297	0.0226	0.0154	850.3695
Energy	9.3400e-003	0.0798	0.0340	5.1000e-004	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	101.9101	101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
Mobile	1.0648	3.1648	11.9551	0.0324	2.2831	0.0463	2.3295	0.6100	0.0427	0.6527	2,679.582	2,679.582	2,679.582	0.1022		2,681.727
<b>Total</b>	<b>2.8448</b>	<b>3.2870</b>	<b>15.6515</b>	<b>0.0331</b>	<b>2.2831</b>	<b>0.1259</b>	<b>2.4090</b>	<b>0.6100</b>	<b>0.1217</b>	<b>0.7317</b>	<b>0.0000</b>	<b>3,626.621</b>	<b>3,626.621</b>	<b>0.1267</b>	<b>0.0172</b>	<b>3,634.627</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	80.10	8.17	58.55	51.52	0.00	96.33	57.86	0.00	96.45	81.89	100.00	-1.30	9.16	90.54	42.23	9.80

### 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	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/30/2017	2/28/2017	5	22	
3	Grading	Grading	2/27/2017	3/27/2017	5	21	
4	Building Construction	Building Construction	3/28/2017	4/30/2018	5	285	
5	Paving	Paving	5/1/2018	6/11/2018	5	30	
6	Architectural Coating	Architectural Coating	6/12/2018	7/23/2018	5	30	

Acres of Grading (Site Preparation Phase): 0.52

Acres of Grading (Grading Phase): 0.52

Acres of Paving: 0

Residential Indoor: 89,100; Residential Outdoor: 29,700; Non-Residential Indoor: 35,301; Non-Residential Outdoor: 11,767 (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
Site Preparation	Graders	1	8.00	174	0.41
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
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
Architectural Coating	Air Compressors	1	6.00	78	0.48
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

**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	49.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	1,625.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	42.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 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					
Fugitive Dust					0.5266	0.0000	0.5266	0.0797	0.0000	0.0797			0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022		2,457.468 2	2,457.468 2	0.6235		2,470.562 0
<b>Total</b>	<b>2.7216</b>	<b>26.5855</b>	<b>20.8712</b>	<b>0.0245</b>	<b>0.5266</b>	<b>1.6062</b>	<b>2.1328</b>	<b>0.0797</b>	<b>1.5022</b>	<b>1.5820</b>		<b>2,457.468 2</b>	<b>2,457.468 2</b>	<b>0.6235</b>		<b>2,470.562 0</b>

**3.2 Demolition - 2017**

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0420	0.6448	0.5273	1.8000e-003	0.0427	9.6200e-003	0.0523	0.0117	8.8500e-003	0.0205		178.8788	178.8788	1.3000e-003		178.9060
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0496	0.0671	0.7010	1.7200e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.4700	139.4700	7.3200e-003		139.6236
Total	0.0916	0.7119	1.2283	3.5200e-003	0.1880	0.0108	0.1988	0.0502	9.9300e-003	0.0602		318.3487	318.3487	8.6200e-003		318.5297
lb/day																

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.2054	0.0000	0.2054	0.0311	0.0000	0.0311		0.0000	0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022		2.457.468	2.457.468	0.6235		2.470.562
Total	2.7216	26.5855	20.8712	0.0245	0.2054	0.0000	0.2054	0.0311	0.0000	0.0311		2.457.468	2.457.468	0.6235		2.470.562
lb/day																

**3.2 Demolition - 2017**

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0420	0.6448	0.5273	1.8000e-003	0.0427	9.6200e-003	0.0523	0.0117	8.8500e-003	0.0205	178.8788	178.8788	1.3000e-003	178.9060	0.0000	178.9060
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0496	0.0671	0.7010	1.7200e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396	139.4700	139.4700	7.3200e-003	139.6236	0.0000	139.6236
Total	0.0916	0.7119	1.2283	3.5200e-003	0.1880	0.0108	0.1988	0.0502	9.9300e-003	0.0602	318.3487	318.3487	8.6200e-003	318.5297	0.0000	318.5297

**3.3 Site Preparation - 2017**

**Unmitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3109	24.2288	15.9299	0.0171	1.3067	1.3067	1.3067	1.2022	1.2022	1.2022	1,752.1239	1,752.1239	0.5369	1,763.3977	0.0000	1,763.3977
Total	2.3109	24.2288	15.9299	0.0171	1.3067	1.3067	1.3067	1.2022	1.2022	1.2022	1,752.1239	1,752.1239	0.5369	1,763.3977	0.0000	1,763.3977



**3.3 Site Preparation - 2017  
Unmitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0305	0.0413	0.4314	1.0600e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244	85.8277	85.8277	85.8277	4.5000e-003	85.9222		85.9222
<b>Total</b>	<b>0.0305</b>	<b>0.0413</b>	<b>0.4314</b>	<b>1.0600e-003</b>	<b>0.0894</b>	<b>7.2000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.6000e-004</b>	<b>0.0244</b>	<b>85.8277</b>	<b>85.8277</b>	<b>85.8277</b>	<b>4.5000e-003</b>	<b>85.9222</b>		<b>85.9222</b>
lb/day																	

**Mitigated Construction On-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust						2.0648	0.0000	2.0648	1.1307	0.0000	1.1307			0.0000			0.0000
Off-Road	2.3109	24.2288	15.9299	0.0171			1.3067	1.3067		1.2022	1.2022			1.752.123	0.5369		1.763.397
<b>Total</b>	<b>2.3109</b>	<b>24.2288</b>	<b>15.9299</b>	<b>0.0171</b>	<b>2.0648</b>	<b>2.0648</b>	<b>1.3067</b>	<b>3.3715</b>	<b>1.1307</b>	<b>1.2022</b>	<b>2.3329</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1,752.123</b>	<b>0.5369</b>		<b>1,763.397</b>
lb/day																	

**3.3 Site Preparation - 2017**

**Mitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker		0.0305	0.0413	0.4314	1.0600e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		85.8277	85.8277	4.5000e-003		85.9222	
Total		0.0305	0.0413	0.4314	1.0600e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		85.8277	85.8277	4.5000e-003		85.9222	
lb/day																		

**3.4 Grading - 2017**

**Unmitigated Construction On-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Fugitive Dust						4.6128	0.0000	4.6128	2.4961	0.0000	2.4961			0.0000			0.0000	
Off-Road		1.8844	19.7889	13.1786	0.0141		1.0661	1.0661		0.9808	0.9808		1,439.1894	1,439.1894	0.4410		1,448.4496	
Total		1.8844	19.7889	13.1786	0.0141	4.6128	1.0661	5.6790	2.4961	0.9808	3.4769		1,439.1894	1,439.1894	0.4410		1,448.4496	
lb/day																		

**3.4 Grading - 2017**

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	1.3265	20.3639	16.6536	0.0570	1.3482	0.3039	1.6521	0.3692	0.2796	0.6487	5,649.718	5,649.718	5,649.718	0.0410		5,650.579
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.0305	0.0413	0.4314	1.0600e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244	85.8277	85.8277	85.8277	4.5000e-003		85.9222
<b>Total</b>	<b>1.3571</b>	<b>20.4053</b>	<b>17.0850</b>	<b>0.0580</b>	<b>1.4376</b>	<b>0.3046</b>	<b>1.7423</b>	<b>0.3929</b>	<b>0.2802</b>	<b>0.6731</b>		<b>5,735.546</b>	<b>5,735.546</b>	<b>0.0455</b>		<b>5,736.501</b>
lb/day																

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					1.7990	0.0000	1.7990	0.9735	0.0000	0.9735			0.0000			0.0000
Off-Road	1.8844	19.7889	13.1786		0.0141				0.9808	1.0661	1,439.189	1,439.189	1,439.189	0.4410		1,448.449
<b>Total</b>	<b>1.8844</b>	<b>19.7889</b>	<b>13.1786</b>		<b>0.0141</b>			<b>0.9735</b>	<b>0.9808</b>	<b>2.8651</b>		<b>1,439.189</b>	<b>1,439.189</b>	<b>0.4410</b>		<b>1,448.449</b>
lb/day																

### 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	1.3265	20.3639	16.6536	0.0570	1.3482	0.3039	1.6521	0.3692	0.2796	0.6487		5,649.7185	5,649.7185	0.0410		5,650.5795
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0305	0.0413	0.4314	1.0600e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		85.8277	85.8277	4.5000e-003		85.9222
<b>Total</b>	<b>1.3571</b>	<b>20.4053</b>	<b>17.0850</b>	<b>0.0580</b>	<b>1.4376</b>	<b>0.3046</b>	<b>1.7423</b>	<b>0.3929</b>	<b>0.2802</b>	<b>0.6731</b>		<b>5,735.5462</b>	<b>5,735.5462</b>	<b>0.0455</b>		<b>5,736.5017</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	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497
<b>Total</b>	<b>2.9546</b>	<b>19.1088</b>	<b>14.3110</b>	<b>0.0220</b>		<b>1.2257</b>	<b>1.2257</b>		<b>1.1823</b>	<b>1.1823</b>		<b>2,034.2860</b>	<b>2,034.2860</b>	<b>0.4268</b>		<b>2,043.2497</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	0.0753	0.7292	1.0229	1.9400e-003	0.0563	0.0114	0.0677	0.0160	0.0105	0.0265		191.5775	191.5775	1.4000e-003			191.6070
Worker	0.1603	0.2169	2.2647	5.5700e-003	0.4695	3.7800e-003	0.4732	0.1245	3.4800e-003	0.1280		450.5953	450.5953	0.0236			451.0917
<b>Total</b>	<b>0.2356</b>	<b>0.9461</b>	<b>3.2876</b>	<b>7.5100e-003</b>	<b>0.5257</b>	<b>0.0152</b>	<b>0.5409</b>	<b>0.1405</b>	<b>0.0140</b>	<b>0.1545</b>		<b>642.1727</b>	<b>642.1727</b>	<b>0.0250</b>			<b>642.6987</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	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823	0.0000	2,034.2860	2,034.2860	0.4268			2,043.2497
<b>Total</b>	<b>2.9546</b>	<b>19.1088</b>	<b>14.3110</b>	<b>0.0220</b>		<b>1.2257</b>	<b>1.2257</b>		<b>1.1823</b>	<b>1.1823</b>	<b>0.0000</b>	<b>2,034.2860</b>	<b>2,034.2860</b>	<b>0.4268</b>			<b>2,043.2497</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	0.0753	0.7292	1.0229	1.9400e-003	0.0563	0.0114	0.0677	0.0160	0.0105	0.0265		191.5775	191.5775	1.4000e-003			191.6070
Worker	0.1603	0.2169	2.2647	5.5700e-003	0.4695	3.7800e-003	0.4732	0.1245	3.4800e-003	0.1280		450.5953	450.5953	0.0236			451.0917
<b>Total</b>	<b>0.2356</b>	<b>0.9461</b>	<b>3.2876</b>	<b>7.5100e-003</b>	<b>0.5257</b>	<b>0.0152</b>	<b>0.5409</b>	<b>0.1405</b>	<b>0.0140</b>	<b>0.1545</b>		<b>642.1727</b>	<b>642.1727</b>	<b>0.0250</b>			<b>642.6987</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	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172		2,021.4136	2,021.4136	0.4059			2,029.9373
<b>Total</b>	<b>2.5826</b>	<b>17.3173</b>	<b>13.8357</b>	<b>0.0220</b>		<b>1.0532</b>	<b>1.0532</b>		<b>1.0172</b>	<b>1.0172</b>		<b>2,021.4136</b>	<b>2,021.4136</b>	<b>0.4059</b>			<b>2,029.9373</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	0.0704	0.6693	0.9816	1.9400e-003	0.0563	0.0108	0.0670	0.0160	9.9100e-003	0.0259		188.3615	188.3615	1.4000e-003			188.3909
Worker	0.1442	0.1967	2.0496	5.5700e-003	0.4695	3.6800e-003	0.4731	0.1245	3.4000e-003	0.1279		433.7698	433.7698	0.0219			434.2305
<b>Total</b>	<b>0.2146</b>	<b>0.8660</b>	<b>3.0312</b>	<b>7.5100e-003</b>	<b>0.5257</b>	<b>0.0145</b>	<b>0.5402</b>	<b>0.1405</b>	<b>0.0133</b>	<b>0.1538</b>		<b>622.1313</b>	<b>622.1313</b>	<b>0.0233</b>			<b>622.6214</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	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172	0.0000	2,021.4136	2,021.4136	0.4059			2,029.9373
<b>Total</b>	<b>2.5826</b>	<b>17.3173</b>	<b>13.8357</b>	<b>0.0220</b>		<b>1.0532</b>	<b>1.0532</b>		<b>1.0172</b>	<b>1.0172</b>	<b>0.0000</b>	<b>2,021.4136</b>	<b>2,021.4136</b>	<b>0.4059</b>			<b>2,029.9373</b>

**3.5 Building Construction - 2018**  
**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0704	0.6693	0.9816	1.9400e-003	0.0563	0.0108	0.0670	0.0160	9.9100e-003	0.0259	188.3615	188.3615	188.3615	1.4000e-003		188.3909
Worker	0.1442	0.1967	2.0496	5.5700e-003	0.4695	3.6800e-003	0.4731	0.1245	3.4000e-003	0.1279	433.7698	433.7698	433.7698	0.0219		434.2305
Total	0.2146	0.8660	3.0312	7.5100e-003	0.5257	0.0145	0.5402	0.1405	0.0133	0.1538	622.1313	622.1313	622.1313	0.0233		622.6214
lb/day																

**3.6 Paving - 2018**

**Unmitigated Construction On-Site**

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



**3.6 Paving - 2018**

**Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0446	0.0609	0.6344	1.7200e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396	134.2621	134.2621	134.2621	6.7900e-003	134.4047	134.4047
<b>Total</b>	<b>0.0446</b>	<b>0.0609</b>	<b>0.6344</b>	<b>1.7200e-003</b>	<b>0.1453</b>	<b>1.1400e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.0500e-003</b>	<b>0.0396</b>						<b>134.4047</b>
lb/day																

**Mitigated Construction On-Site**

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

**3.6 Paving - 2018**

**Mitigated Construction Off-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0446	0.0609	0.6344	1.7200e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396	134.2621	134.2621	134.2621	134.2621	6.7900e-003	134.4047	134.4047
Total	0.0446	0.0609	0.6344	1.7200e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396	134.2621	134.2621	134.2621	134.2621	6.7900e-003	134.4047	134.4047
lb/day																	

**3.7 Architectural Coating - 2018**

**Unmitigated Construction On-Site**

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	29.6516					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506	0.1506	0.1506	0.1506	0.1506			281.4485	0.0267		282.0102
Total	29.9503	2.0058	1.8542	2.9700e-003		0.0000	0.0000	0.0000	0.1506	0.1506	0.1506			281.4485	0.0267		282.0102
lb/day																	

**3.7 Architectural Coating - 2018  
Unmitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0275	0.0375	0.3904	1.0600e-003	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		82.6228	82.6228	4.1800e-003		82.7106
<b>Total</b>	<b>0.0275</b>	<b>0.0375</b>	<b>0.3904</b>	<b>1.0600e-003</b>	<b>0.0894</b>	<b>7.0000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.5000e-004</b>	<b>0.0244</b>		<b>82.6228</b>	<b>82.6228</b>	<b>4.1800e-003</b>		<b>82.7106</b>
lb/day																

**Mitigated Construction On-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	29.6516				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003	0.1506	0.1506	0.1506	0.1506	0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
<b>Total</b>	<b>29.9503</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>	<b>0.1506</b>	<b>0.1506</b>	<b>0.1506</b>	<b>0.1506</b>	<b>0.1506</b>	<b>0.1506</b>		<b>281.4485</b>	<b>281.4485</b>	<b>0.0267</b>		<b>282.0102</b>
lb/day																

### 3.7 Architectural Coating - 2018

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0275	0.0375	0.3904	1.0600e-003	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		82.6228	82.6228	4.1800e-003		82.7106
<b>Total</b>	<b>0.0275</b>	<b>0.0375</b>	<b>0.3904</b>	<b>1.0600e-003</b>	<b>0.0894</b>	<b>7.0000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.5000e-004</b>	<b>0.0244</b>		<b>82.6228</b>	<b>82.6228</b>	<b>4.1800e-003</b>		<b>82.7106</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	1.0648	3.1648	11.9551	0.0324	2.2831	0.0463	2.3295	0.6100	0.0427	0.6527		2,679.5820	2,679.5820	0.1022		2,681.7274
Unmitigated	1.0648	3.1648	11.9551	0.0324	2.2831	0.0463	2.3295	0.6100	0.0427	0.6527		2,679.5820	2,679.5820	0.1022		2,681.7274

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	292.60	315.04	267.08	998,355	998,355
Enclosed Parking with Elevator	0.00	0.00	0.00		
<b>Total</b>	<b>292.60</b>	<b>315.04</b>	<b>267.08</b>	<b>998,355</b>	<b>998,355</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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512137	0.059943	0.180601	0.139123	0.042256	0.006647	0.016115	0.031670	0.001940	0.002502	0.004362	0.000588	0.002117

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

**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	lb/day					Land Use	KBTU/yr						
											Bio- CO2	NBio- CO2	Total CO2	CH4	N2O			CO2e					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
Apartments High Rise	866.236	9.3400e-003	0.0798	0.0340	5.1000e-004	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	101.9101	101.9101	101.9101	1.9500e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	102.5303	
<b>Total</b>																							

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	lb/day					Category					
											Bio- CO2	NBio- CO2	Total CO2	CH4	N2O		CO2e				
NaturalGas Mitigated	9.3400e-003	0.0798	0.0340	5.1000e-004	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	101.9101	101.9101	101.9101	1.9500e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	102.5303
NaturalGas Unmitigated	9.3400e-003	0.0798	0.0340	5.1000e-004	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	6.4500e-003	101.9101	101.9101	101.9101	1.9500e-003	1.8700e-003	1.8700e-003	1.8700e-003	1.8700e-003	102.5303

**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	lb/day					Eio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
											Land Use	KBTU/yr	lb/day									
Apartment's High Rise	0.866236	9.3400e-003	0.0798	0.0340	5.1000e-004	6.4500e-003	6.4500e-003	6.4500e-003	0.0000	6.4500e-003	6.4500e-003	101.9101	101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	101.9101	101.9101	101.9101	0.0000	0.0000	0.0000					
<b>Total</b>	<b>9.3400e-003</b>	<b>0.0798</b>	<b>0.0340</b>	<b>5.1000e-004</b>	<b>6.4500e-003</b>	<b>6.4500e-003</b>	<b>6.4500e-003</b>	<b>6.4500e-003</b>	<b>0.0000</b>	<b>6.4500e-003</b>	<b>6.4500e-003</b>	<b>101.9101</b>	<b>101.9101</b>	<b>101.9101</b>	<b>1.9500e-003</b>	<b>1.8700e-003</b>	<b>102.5303</b>					

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use only Natural Gas Hearths
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7707	0.0425	3.6624	1.9000e-004		0.0731	0.0731		0.0725	0.0725	0.0000	845.1297	845.1297	0.0226	0.0154	850.3695
Unmitigated	13.2234	0.3350	25.7744	0.0354		3.3811	3.3811		3.3805	3.3805	412.1444	798.5415	1,210.6859	1.2356	0.0280	1,245.3049

## 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	0.2437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3372					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	11.5296	0.2925	22.1162	0.0352		3.3611	3.3611		3.3606	3.3606	412.1444	792.0000	1,204.1444	1.2291	0.0280	1,238.6272
Landscaping	0.1129	0.0425	3.6582	1.9000e-004		0.0200	0.0200		0.0200	0.0200		6.5415	6.5415	6.4900e-003		6.6778
<b>Total</b>	<b>13.2234</b>	<b>0.3350</b>	<b>25.7744</b>	<b>0.0354</b>		<b>3.3811</b>	<b>3.3811</b>		<b>3.3805</b>	<b>3.3805</b>	<b>412.1444</b>	<b>798.5415</b>	<b>1,210.6859</b>	<b>1.2356</b>	<b>0.0280</b>	<b>1,245.3049</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	0.2437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3372					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0769	0.0000	4.1900e-003	0.0000		0.0531	0.0531		0.0526	0.0526	0.0000	838.5882	838.5882	0.0161	0.0154	843.6917
Landscaping	0.1129	0.0425	3.6582	1.9000e-004		0.0200	0.0200		0.0200	0.0200		6.5415	6.5415	6.4900e-003		6.6778
<b>Total</b>	<b>1.7707</b>	<b>0.0425</b>	<b>3.6624</b>	<b>1.9000e-004</b>		<b>0.0731</b>	<b>0.0731</b>		<b>0.0725</b>	<b>0.0725</b>	<b>0.0000</b>	<b>845.1297</b>	<b>845.1297</b>	<b>0.0226</b>	<b>0.0154</b>	<b>850.3695</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

Use Water Efficient Irrigation System

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 9.0 Operational Offroad

---

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

## 10.0 Vegetation

---