

**APPENDIX D-3**  
**CALEEMOD MODELING RESULTS**  
**PROPOSED MARKETPLACE**

## Great America Master Plan Santa Clara County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
	0.00		0.00		0
Strip Mall	140.00	1000sqft	3.21	140,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2018
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	242	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity factor is based on 2035 CAP goal

Land Use - based on square footage provided

Vehicle Trips - The daily trip rate is based on the 4,425 daily trips that the project generates.

Mobile Land Use Mitigation -

Energy Use - used default energy intensity

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00

tblProjectCharacteristics	CO2IntensityFactor	641.35	242
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	ST_TR	42.04	31.61
tblVehicleTrips	SU_TR	20.43	31.61
tblVehicleTrips	WD_TR	44.32	31.61

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.4635	3.9559	3.1655	4.8400e-003	0.1371	0.2422	0.3793	0.0561	0.2270	0.2831	0.0000	425.4108	425.4108	0.0856	0.0000	427.2092
2018	1.6429	0.1860	0.1708	2.8000e-004	3.2100e-003	0.0111	0.0143	8.6000e-004	0.0104	0.0113	0.0000	24.0743	24.0743	5.7700e-003	0.0000	24.1955
<b>Total</b>	<b>2.1064</b>	<b>4.1419</b>	<b>3.3363</b>	<b>5.1200e-003</b>	<b>0.1403</b>	<b>0.2533</b>	<b>0.3936</b>	<b>0.0570</b>	<b>0.2374</b>	<b>0.2943</b>	<b>0.0000</b>	<b>449.4850</b>	<b>449.4850</b>	<b>0.0914</b>	<b>0.0000</b>	<b>451.4047</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.4635	3.9559	3.1655	4.8400e-003	0.1371	0.2422	0.3793	0.0561	0.2270	0.2831	0.0000	425.4104	425.4104	0.0856	0.0000	427.2088
2018	1.6429	0.1860	0.1708	2.8000e-004	3.2100e-003	0.0111	0.0143	8.6000e-004	0.0104	0.0113	0.0000	24.0742	24.0742	5.7700e-003	0.0000	24.1955

Total	2.1064	4.1419	3.3363	5.1200e-003	0.1403	0.2533	0.3936	0.0570	0.2374	0.2943	0.0000	449.4846	449.4846	0.0914	0.0000	451.4042
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6199	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6500e-003
Energy	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003	0.0000	198.2512	198.2512	0.0219	4.8000e-003	200.1972
Mobile	2.1206	3.6594	17.9647	0.0357	2.5294	0.0472	2.5766	0.6762	0.0435	0.7197	0.0000	2,645.9867	2,645.9867	0.1084	0.0000	2,648.2639
Waste						0.0000	0.0000		0.0000	0.0000	29.8397	0.0000	29.8397	1.7635	0.0000	66.8726
Water						0.0000	0.0000		0.0000	0.0000	3.2900	8.6014	11.8913	0.3389	8.1900e-003	21.5487
Total	2.7424	3.6765	17.9804	0.0358	2.5294	0.0485	2.5779	0.6762	0.0448	0.7210	33.1296	2,852.8418	2,885.9714	2.2327	0.0130	2,936.8851

## Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6199	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6500e-003

Energy	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003	0.0000	198.2512	198.2512	0.0219	4.8000e-003	200.1972
Mobile	2.1206	3.6594	17.9647	0.0357	2.5294	0.0472	2.5766	0.6762	0.0435	0.7197	0.0000	2,645.9867	2,645.9867	0.1084	0.0000	2,648.2639
Waste						0.0000	0.0000		0.0000	0.0000	29.8397	0.0000	29.8397	1.7635	0.0000	66.8726
Water						0.0000	0.0000		0.0000	0.0000	3.2900	8.6014	11.8913	0.3389	8.1800e-003	21.5434
<b>Total</b>	<b>2.7424</b>	<b>3.6765</b>	<b>17.9804</b>	<b>0.0358</b>	<b>2.5294</b>	<b>0.0485</b>	<b>2.5779</b>	<b>0.6762</b>	<b>0.0448</b>	<b>0.7210</b>	<b>33.1296</b>	<b>2,852.8418</b>	<b>2,885.9714</b>	<b>2.2327</b>	<b>0.0130</b>	<b>2,936.8798</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.08</b>	<b>0.00</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/28/2017	2/3/2017	5	5	
3	Grading	Grading	2/4/2017	2/15/2017	5	8	
4	Building Construction	Building Construction	2/16/2017	1/3/2018	5	230	
5	Paving	Paving	1/4/2018	1/29/2018	5	18	
6	Architectural Coating	Architectural Coating	1/30/2018	2/22/2018	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 210,000; Non-Residential Outdoor: 70,000 (Architectural Coating –

#### OffRoad Equipment

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

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	45.00	23.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 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	0.0405	0.4270	0.3389	4.0000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	36.6182	36.6182	0.0101	0.0000	36.8292
<b>Total</b>	<b>0.0405</b>	<b>0.4270</b>	<b>0.3389</b>	<b>4.0000e-004</b>		<b>0.0213</b>	<b>0.0213</b>		<b>0.0198</b>	<b>0.0198</b>	<b>0.0000</b>	<b>36.6182</b>	<b>36.6182</b>	<b>0.0101</b>	<b>0.0000</b>	<b>36.8292</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	7.0000e-004	6.8200e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1574	1.1574	6.0000e-005	0.0000	1.1586
<b>Total</b>	<b>5.0000e-004</b>	<b>7.0000e-004</b>	<b>6.8200e-003</b>	<b>2.0000e-005</b>	<b>1.3700e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.1574</b>	<b>1.1574</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1586</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	0.0405	0.4270	0.3389	4.0000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	36.6182	36.6182	0.0101	0.0000	36.8291
<b>Total</b>	<b>0.0405</b>	<b>0.4270</b>	<b>0.3389</b>	<b>4.0000e-004</b>		<b>0.0213</b>	<b>0.0213</b>		<b>0.0198</b>	<b>0.0198</b>	<b>0.0000</b>	<b>36.6182</b>	<b>36.6182</b>	<b>0.0101</b>	<b>0.0000</b>	<b>36.8291</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	7.0000e-004	6.8200e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1574	1.1574	6.0000e-005	0.0000	1.1586
<b>Total</b>	<b>5.0000e-004</b>	<b>7.0000e-004</b>	<b>6.8200e-003</b>	<b>2.0000e-005</b>	<b>1.3700e-003</b>	<b>1.0000e-005</b>	<b>1.3800e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.1574</b>	<b>1.1574</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1586</b>

**3.3 Site Preparation - 2017**

**Unmitigated Construction On-Site**

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



Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-004		6.8900e-003	6.8900e-003		6.3300e-003	6.3300e-003	0.0000	9.0789	9.0789	2.7800e-003	0.0000	9.1373
<b>Total</b>	<b>0.0121</b>	<b>0.1294</b>	<b>0.0985</b>	<b>1.0000e-004</b>	<b>0.0452</b>	<b>6.8900e-003</b>	<b>0.0521</b>	<b>0.0248</b>	<b>6.3300e-003</b>	<b>0.0312</b>	<b>0.0000</b>	<b>9.0789</b>	<b>9.0789</b>	<b>2.7800e-003</b>	<b>0.0000</b>	<b>9.1373</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	2.1000e-004	2.0400e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3472	0.3472	2.0000e-005	0.0000	0.3476
<b>Total</b>	<b>1.5000e-004</b>	<b>2.1000e-004</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3472</b>	<b>0.3472</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3476</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-004		6.8900e-003	6.8900e-003		6.3300e-003	6.3300e-003	0.0000	9.0788	9.0788	2.7800e-003	0.0000	9.1373
<b>Total</b>	<b>0.0121</b>	<b>0.1294</b>	<b>0.0985</b>	<b>1.0000e-004</b>	<b>0.0452</b>	<b>6.8900e-003</b>	<b>0.0521</b>	<b>0.0248</b>	<b>6.3300e-003</b>	<b>0.0312</b>	<b>0.0000</b>	<b>9.0788</b>	<b>9.0788</b>	<b>2.7800e-003</b>	<b>0.0000</b>	<b>9.1373</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	2.1000e-004	2.0400e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3472	0.3472	2.0000e-005	0.0000	0.3476
<b>Total</b>	<b>1.5000e-004</b>	<b>2.1000e-004</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3472</b>	<b>0.3472</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3476</b>

**3.4 Grading - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1439	0.1015	1.2000e-004		8.1600e-003	8.1600e-003		7.5000e-003	7.5000e-003	0.0000	11.0447	11.0447	3.3800e-003	0.0000	11.1157
<b>Total</b>	<b>0.0138</b>	<b>0.1439</b>	<b>0.1015</b>	<b>1.2000e-004</b>	<b>0.0262</b>	<b>8.1600e-003</b>	<b>0.0344</b>	<b>0.0135</b>	<b>7.5000e-003</b>	<b>0.0210</b>	<b>0.0000</b>	<b>11.0447</b>	<b>11.0447</b>	<b>3.3800e-003</b>	<b>0.0000</b>	<b>11.1157</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	2.8000e-004	2.7300e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4629	0.4629	2.0000e-005	0.0000	0.4634
<b>Total</b>	<b>2.0000e-004</b>	<b>2.8000e-004</b>	<b>2.7300e-003</b>	<b>1.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4629</b>	<b>0.4629</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4634</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0138	0.1439	0.1015	1.2000e-004		8.1600e-003	8.1600e-003		7.5000e-003	7.5000e-003	0.0000	11.0447	11.0447	3.3800e-003	0.0000	11.1157
<b>Total</b>	<b>0.0138</b>	<b>0.1439</b>	<b>0.1015</b>	<b>1.2000e-004</b>	<b>0.0262</b>	<b>8.1600e-003</b>	<b>0.0344</b>	<b>0.0135</b>	<b>7.5000e-003</b>	<b>0.0210</b>	<b>0.0000</b>	<b>11.0447</b>	<b>11.0447</b>	<b>3.3800e-003</b>	<b>0.0000</b>	<b>11.1157</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	2.8000e-004	2.7300e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4629	0.4629	2.0000e-005	0.0000	0.4634

<b>Total</b>	<b>2.0000e-004</b>	<b>2.8000e-004</b>	<b>2.7300e-003</b>	<b>1.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4629</b>	<b>0.4629</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4634</b>
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### 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	0.3521	2.9970	2.0577	3.0400e-003		0.2022	0.2022		0.1899	0.1899	0.0000	271.8088	271.8088	0.0669	0.0000	273.2136
<b>Total</b>	<b>0.3521</b>	<b>2.9970</b>	<b>2.0577</b>	<b>3.0400e-003</b>		<b>0.2022</b>	<b>0.2022</b>		<b>0.1899</b>	<b>0.1899</b>	<b>0.0000</b>	<b>271.8088</b>	<b>271.8088</b>	<b>0.0669</b>	<b>0.0000</b>	<b>273.2136</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0272	0.2334	0.3252	6.2000e-004	0.0169	3.3800e-003	0.0202	4.8300e-003	3.1000e-003	7.9400e-003	0.0000	55.4850	55.4850	4.3000e-004	0.0000	55.4940
Worker	0.0170	0.0240	0.2321	5.4000e-004	0.0465	3.5000e-004	0.0469	0.0124	3.3000e-004	0.0127	0.0000	39.4077	39.4077	2.0000e-003	0.0000	39.4498
<b>Total</b>	<b>0.0442</b>	<b>0.2573</b>	<b>0.5573</b>	<b>1.1600e-003</b>	<b>0.0634</b>	<b>3.7300e-003</b>	<b>0.0671</b>	<b>0.0172</b>	<b>3.4300e-003</b>	<b>0.0206</b>	<b>0.0000</b>	<b>94.8927</b>	<b>94.8927</b>	<b>2.4300e-003</b>	<b>0.0000</b>	<b>94.9438</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	0.3521	2.9970	2.0577	3.0400e-003		0.2022	0.2022		0.1899	0.1899	0.0000	271.8085	271.8085	0.0669	0.0000	273.2133
<b>Total</b>	<b>0.3521</b>	<b>2.9970</b>	<b>2.0577</b>	<b>3.0400e-003</b>		<b>0.2022</b>	<b>0.2022</b>		<b>0.1899</b>	<b>0.1899</b>	<b>0.0000</b>	<b>271.8085</b>	<b>271.8085</b>	<b>0.0669</b>	<b>0.0000</b>	<b>273.2133</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0272	0.2334	0.3252	6.2000e-004	0.0169	3.3800e-003	0.0202	4.8300e-003	3.1000e-003	7.9400e-003	0.0000	55.4850	55.4850	4.3000e-004	0.0000	55.4940
Worker	0.0170	0.0240	0.2321	5.4000e-004	0.0465	3.5000e-004	0.0469	0.0124	3.3000e-004	0.0127	0.0000	39.4077	39.4077	2.0000e-003	0.0000	39.4498
<b>Total</b>	<b>0.0442</b>	<b>0.2573</b>	<b>0.5573</b>	<b>1.1600e-003</b>	<b>0.0634</b>	<b>3.7300e-003</b>	<b>0.0671</b>	<b>0.0172</b>	<b>3.4300e-003</b>	<b>0.0206</b>	<b>0.0000</b>	<b>94.8927</b>	<b>94.8927</b>	<b>2.4300e-003</b>	<b>0.0000</b>	<b>94.9438</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	4.0000e-003	0.0349	0.0263	4.0000e-005		2.2400e-003	2.2400e-003		2.1100e-003	2.1100e-003	0.0000	3.5516	3.5516	8.7000e-004	0.0000	3.5698
<b>Total</b>	<b>4.0000e-003</b>	<b>0.0349</b>	<b>0.0263</b>	<b>4.0000e-005</b>		<b>2.2400e-003</b>	<b>2.2400e-003</b>		<b>2.1100e-003</b>	<b>2.1100e-003</b>	<b>0.0000</b>	<b>3.5516</b>	<b>3.5516</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>3.5698</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	2.7900e-003	4.0500e-003	1.0000e-005	2.2000e-004	4.0000e-005	2.6000e-004	6.0000e-005	4.0000e-005	1.0000e-004	0.0000	0.7205	0.7205	1.0000e-005	0.0000	0.7206
Worker	2.0000e-004	2.9000e-004	2.7500e-003	1.0000e-005	6.1000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5014	0.5014	2.0000e-005	0.0000	0.5019
<b>Total</b>	<b>5.2000e-004</b>	<b>3.0800e-003</b>	<b>6.8000e-003</b>	<b>2.0000e-005</b>	<b>8.3000e-004</b>	<b>4.0000e-005</b>	<b>8.8000e-004</b>	<b>2.2000e-004</b>	<b>4.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.2219</b>	<b>1.2219</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.2225</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	4.0000e-003	0.0349	0.0263	4.0000e-005		2.2400e-003	2.2400e-003		2.1100e-003	2.1100e-003	0.0000	3.5515	3.5515	8.7000e-004	0.0000	3.5698
<b>Total</b>	<b>4.0000e-003</b>	<b>0.0349</b>	<b>0.0263</b>	<b>4.0000e-005</b>		<b>2.2400e-003</b>	<b>2.2400e-003</b>		<b>2.1100e-003</b>	<b>2.1100e-003</b>	<b>0.0000</b>	<b>3.5515</b>	<b>3.5515</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>3.5698</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2000e-004	2.7900e-003	4.0500e-003	1.0000e-005	2.2000e-004	4.0000e-005	2.6000e-004	6.0000e-005	4.0000e-005	1.0000e-004	0.0000	0.7205	0.7205	1.0000e-005	0.0000	0.7206
Worker	2.0000e-004	2.9000e-004	2.7500e-003	1.0000e-005	6.1000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5014	0.5014	2.0000e-005	0.0000	0.5019
<b>Total</b>	<b>5.2000e-004</b>	<b>3.0800e-003</b>	<b>6.8000e-003</b>	<b>2.0000e-005</b>	<b>8.3000e-004</b>	<b>4.0000e-005</b>	<b>8.8000e-004</b>	<b>2.2000e-004</b>	<b>4.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.2219</b>	<b>1.2219</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.2225</b>

**3.6 Paving - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0127	0.1289	0.1104	1.7000e-004		7.4500e-003	7.4500e-003		6.8700e-003	6.8700e-003	0.0000	15.0641	15.0641	4.5600e-003	0.0000	15.1599
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0127</b>	<b>0.1289</b>	<b>0.1104</b>	<b>1.7000e-004</b>		<b>7.4500e-003</b>	<b>7.4500e-003</b>		<b>6.8700e-003</b>	<b>6.8700e-003</b>	<b>0.0000</b>	<b>15.0641</b>	<b>15.0641</b>	<b>4.5600e-003</b>	<b>0.0000</b>	<b>15.1599</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	7.6000e-004	7.3400e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3371	1.3371	6.0000e-005	0.0000	1.3385
<b>Total</b>	<b>5.4000e-004</b>	<b>7.6000e-004</b>	<b>7.3400e-003</b>	<b>2.0000e-005</b>	<b>1.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3371</b>	<b>1.3371</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.3385</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	MT/yr					
	Off-Road	0.0127	0.1289	0.1104	1.7000e-004		7.4500e-003	7.4500e-003		6.8700e-003	6.8700e-003	0.0000	15.0641	15.0641	4.5600e-003	0.0000
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0127</b>	<b>0.1289</b>	<b>0.1104</b>	<b>1.7000e-004</b>		<b>7.4500e-003</b>	<b>7.4500e-003</b>		<b>6.8700e-003</b>	<b>6.8700e-003</b>	<b>0.0000</b>	<b>15.0641</b>	<b>15.0641</b>	<b>4.5600e-003</b>	<b>0.0000</b>	<b>15.1599</b>

**Mitigated Construction Off-Site**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	MT/yr					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	7.6000e-004	7.3400e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3371	1.3371	6.0000e-005	0.0000	1.3385



Total	5.4000e-004	7.6000e-004	7.3400e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3371	1.3371	6.0000e-005	0.0000	1.3385
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### 3.7 Architectural Coating - 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					
Archit. Coating	1.6223						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0181	0.0167	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3025
<b>Total</b>	<b>1.6249</b>	<b>0.0181</b>	<b>0.0167</b>	<b>3.0000e-005</b>		<b>1.3500e-003</b>	<b>1.3500e-003</b>		<b>1.3500e-003</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.3025</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	3.4000e-004	3.3000e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.4000e-004	2.0000e-004	1.0000e-005	2.0000e-004	0.0000	0.6017	0.6017	3.0000e-005	0.0000	0.6023
<b>Total</b>	<b>2.4000e-004</b>	<b>3.4000e-004</b>	<b>3.3000e-003</b>	<b>1.0000e-005</b>	<b>7.4000e-004</b>	<b>1.0000e-005</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>1.0000e-005</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.6017</b>	<b>0.6017</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6023</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6223					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0181	0.0167	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3025
<b>Total</b>	<b>1.6249</b>	<b>0.0181</b>	<b>0.0167</b>	<b>3.0000e-005</b>		<b>1.3500e-003</b>	<b>1.3500e-003</b>		<b>1.3500e-003</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.3025</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	3.4000e-004	3.3000e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.4000e-004	2.0000e-004	1.0000e-005	2.0000e-004	0.0000	0.6017	0.6017	3.0000e-005	0.0000	0.6023
<b>Total</b>	<b>2.4000e-004</b>	<b>3.4000e-004</b>	<b>3.3000e-003</b>	<b>1.0000e-005</b>	<b>7.4000e-004</b>	<b>1.0000e-005</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>1.0000e-005</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.6017</b>	<b>0.6017</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6023</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.1206	3.6594	17.9647	0.0357	2.5294	0.0472	2.5766	0.6762	0.0435	0.7197	0.0000	2,645.9867	2,645.9867	0.1084	0.0000	2,648.2639
Unmitigated	2.1206	3.6594	17.9647	0.0357	2.5294	0.0472	2.5766	0.6762	0.0435	0.7197	0.0000	2,645.9867	2,645.9867	0.1084	0.0000	2,648.2639

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	4,425.40	4,425.40	4425.40	6,815,262	6,815,262
Total	4,425.40	4,425.40	4,425.40	6,815,262	6,815,262

## 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.551461	0.058468	0.185554	0.123211	0.029507	0.004440	0.012712	0.023230	0.001775	0.001270	0.006089	0.000516	0.001766

## 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
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Category	tons/yr								MT/yr								
Electricity Mitigated						0.0000	0.0000			0.0000	0.0000	0.0000	179.6485	179.6485	0.0215	4.4500e-003	181.4814
Electricity Unmitigated						0.0000	0.0000			0.0000	0.0000	0.0000	179.6485	179.6485	0.0215	4.4500e-003	181.4814
NaturalGas Mitigated	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003			1.3000e-003	1.3000e-003	0.0000	18.6026	18.6026	3.6000e-004	3.4000e-004	18.7158
NaturalGas Unmitigated	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003			1.3000e-003	1.3000e-003	0.0000	18.6026	18.6026	3.6000e-004	3.4000e-004	18.7158

## 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					
Strip Mall	348600	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003	0.0000	18.6026	18.6026	3.6000e-004	3.4000e-004	18.7158
<b>Total</b>		<b>1.8800e-003</b>	<b>0.0171</b>	<b>0.0144</b>	<b>1.0000e-004</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>18.6026</b>	<b>18.6026</b>	<b>3.6000e-004</b>	<b>3.4000e-004</b>	<b>18.7158</b>

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Strip Mall	348600	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003	0.0000	18.6026	18.6026	3.6000e-004	3.4000e-004	18.7158
<b>Total</b>		<b>1.8800e-003</b>	<b>0.0171</b>	<b>0.0144</b>	<b>1.0000e-004</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>18.6026</b>	<b>18.6026</b>	<b>3.6000e-004</b>	<b>3.4000e-004</b>	<b>18.7158</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	1.6366e+06	179.6485	0.0215	4.4500e-003	181.4814
<b>Total</b>		<b>179.6485</b>	<b>0.0215</b>	<b>4.4500e-003</b>	<b>181.4814</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	1.6366e+06	179.6485	0.0215	4.4500e-003	181.4814
<b>Total</b>		<b>179.6485</b>	<b>0.0215</b>	<b>4.4500e-003</b>	<b>181.4814</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6199	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6500e-003
Unmitigated	0.6199	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6500e-003

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0730					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5468					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6500e-003
<b>Total</b>	<b>0.6199</b>	<b>1.0000e-005</b>	<b>1.3000e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.5000e-003</b>	<b>2.5000e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.6500e-003</b>

### Mitigated

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

Architectural Coating	0.0730					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.5468					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	1.2000e-004	1.0000e-005	1.3000e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6500e-003
<b>Total</b>	<b>0.6199</b>	<b>1.0000e-005</b>	<b>1.3000e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.5000e-003</b>	<b>2.5000e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.6500e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.8913	0.3389	8.1800e-003	21.5434
Unmitigated	11.8913	0.3389	8.1900e-003	21.5487

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	10.3702 / 6.3559	11.8913	0.3389	8.1900e-003	21.5487
<b>Total</b>		<b>11.8913</b>	<b>0.3389</b>	<b>8.1900e-003</b>	<b>21.5487</b>

## Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	10.3702 / 6.3559	11.8913	0.3389	8.1800e-003	21.5434
<b>Total</b>		<b>11.8913</b>	<b>0.3389</b>	<b>8.1800e-003</b>	<b>21.5434</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	29.8397	1.7635	0.0000	66.8726
Unmitigated	29.8397	1.7635	0.0000	66.8726

### 8.2 Waste by Land Use

#### Unmitigated



	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	147	29.8397	1.7635	0.0000	66.8726
<b>Total</b>		<b>29.8397</b>	<b>1.7635</b>	<b>0.0000</b>	<b>66.8726</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	147	29.8397	1.7635	0.0000	66.8726
<b>Total</b>		<b>29.8397</b>	<b>1.7635</b>	<b>0.0000</b>	<b>66.8726</b>

**9.0 Operational Offroad**

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

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