

**Ventura CalEEMod Example Project**  
**Ventura County APCD Air District, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric
Parking Lot	50	1000sqft
Quality Restaurant	5	1000sqft
Apartments Mid Rise	100	Dwelling Unit
Supermarket	45	1000sqft

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Utility Company</b>	Southern California Edison
<b>Climate Zone</b>	8	<b>Precipitation Freq (Days)</b>	31		

**1.3 User Entered Comments**

Project Characteristics -

Land Use - stacked uses result in lot acreages of zero except for the residential use.

Construction Phase - construction phases reduced by half (odd-numbered defaults rounded up).

Off-road Equipment - Doubling equipment consistent with 50% reduction in construction schedule.

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Grading - site preparation cubic yards exported 32. grading cubic yards exported 16.

Water And Wastewater - Assumes 100% aerobic wastewater treatment

Land Use Change - land use change from 3.25 acres grassland to 0.96 acre.

Sequestration - plant 14 trees

Construction Off-road Equipment Mitigation - All engines are Tier 3. Watering twice a day.

Mobile Land Use Mitigation - Density increase 36du/ac, Diversity increase, Destination accessibility 0.2 miles, Transit accessibility 0.03, Below market housing 10 units, Improved ped network onsite and offsite, NEV network

Area Mitigation -

Energy Mitigation - LEED certified 15% reduction from Title 24. On-site 5kW solar generates 8,094 kWh per year.

## **2.0 Emissions Summary**

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## 2.1 Overall Construction

### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2011	3.52	4.26	3.05	0.01	0.11	0.28	0.39	0.01	0.28	0.29	0.00	442.23	442.23	0.06	0.00	443.57
<b>Total</b>	<b>3.52</b>	<b>4.26</b>	<b>3.05</b>	<b>0.01</b>	<b>0.11</b>	<b>0.28</b>	<b>0.39</b>	<b>0.01</b>	<b>0.28</b>	<b>0.29</b>	<b>0.00</b>	<b>442.23</b>	<b>442.23</b>	<b>0.06</b>	<b>0.00</b>	<b>443.57</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					
2011	3.22	2.44	2.97	0.01	0.10	0.19	0.29	0.01	0.19	0.20	0.00	442.23	442.23	0.06	0.00	443.57
<b>Total</b>	<b>3.22</b>	<b>2.44</b>	<b>2.97</b>	<b>0.01</b>	<b>0.10</b>	<b>0.19</b>	<b>0.29</b>	<b>0.01</b>	<b>0.19</b>	<b>0.20</b>	<b>0.00</b>	<b>442.23</b>	<b>442.23</b>	<b>0.06</b>	<b>0.00</b>	<b>443.57</b>

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.08	0.01	0.78	0.00		0.00	0.00		0.00	0.00	0.00	1.23	1.23	0.00	0.00	1.26
Energy	0.02	0.17	0.12	0.00		0.00	0.01		0.00	0.01	0.00	876.73	876.73	0.03	0.02	882.19
Mobile	4.72	7.25	40.52	0.04	4.67	0.23	4.90	0.07	0.22	0.29	0.00	3,904.91	3,904.91	0.22	0.00	3,909.45
Waste						0.00	0.00		0.00	0.00	61.78	0.00	61.78	3.65	0.00	138.46
Water						0.00	0.00		0.00	0.00	0.00	65.58	65.58	0.00	0.01	69.17
<b>Total</b>	<b>5.82</b>	<b>7.43</b>	<b>41.42</b>	<b>0.04</b>	<b>4.67</b>	<b>0.23</b>	<b>4.91</b>	<b>0.07</b>	<b>0.22</b>	<b>0.30</b>	<b>61.78</b>	<b>4,848.45</b>	<b>4,910.23</b>	<b>3.90</b>	<b>0.03</b>	<b>5,000.53</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.08	0.01	0.78	0.00		0.00	0.00		0.00	0.00	0.00	1.23	1.23	0.00	0.00	1.26
Energy	0.02	0.15	0.11	0.00		0.00	0.01		0.00	0.01	0.00	844.30	844.30	0.03	0.01	849.56
Mobile	3.68	5.04	30.24	0.03	2.70	0.14	2.85	0.04	0.14	0.18	0.00	2,352.56	2,352.56	0.15	0.00	2,355.73
Waste						0.00	0.00		0.00	0.00	61.78	0.00	61.78	3.65	0.00	138.46
Water						0.00	0.00		0.00	0.00	0.00	65.58	65.58	0.00	0.01	69.17
<b>Total</b>	<b>4.78</b>	<b>5.20</b>	<b>31.13</b>	<b>0.03</b>	<b>2.70</b>	<b>0.14</b>	<b>2.86</b>	<b>0.04</b>	<b>0.14</b>	<b>0.19</b>	<b>61.78</b>	<b>3,263.67</b>	<b>3,325.45</b>	<b>3.83</b>	<b>0.02</b>	<b>3,414.18</b>

## 2.3 Vegetation

### Vegetation

	ROG	NOx	CO	SO2	CO2e
Category	tons				MT
New Trees					14.59
Vegetation Land Change					-9.87
<b>Total</b>					<b>4.72</b>

### 3.0 Construction Detail

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#### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

#### 3.2 Site Preparation - 2011

##### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.08	0.04	0.00		0.00	0.00		0.00	0.00	0.00	7.11	7.11	0.00	0.00	7.12
<b>Total</b>	<b>0.01</b>	<b>0.08</b>	<b>0.04</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>7.11</b>	<b>7.11</b>	<b>0.00</b>	<b>0.00</b>	<b>7.12</b>

### 3.2 Site Preparation - 2011

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.00	0.00	0.14
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.00	0.00	0.13
<b>Total</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>0.27</b>	<b>0.27</b>	<b>0.00</b>	<b>0.00</b>	<b>0.27</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					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.04	0.04	0.00		0.00	0.00		0.00	0.00	0.00	7.11	7.11	0.00	0.00	7.12
<b>Total</b>	<b>0.01</b>	<b>0.04</b>	<b>0.04</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>7.11</b>	<b>7.11</b>	<b>0.00</b>	<b>0.00</b>	<b>7.12</b>

### 3.2 Site Preparation - 2011

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.00	0.00	0.14
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.00	0.00	0.13
<b>Total</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>0.27</b>	<b>0.27</b>	<b>0.00</b>	<b>0.00</b>	<b>0.27</b>

### 3.3 Grading - 2011

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.02	0.00	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.02	0.13	0.07	0.00		0.01	0.01		0.01	0.01	0.00	10.41	10.41	0.00	0.00	10.44
<b>Total</b>	<b>0.02</b>	<b>0.13</b>	<b>0.07</b>	<b>0.00</b>	<b>0.02</b>	<b>0.01</b>	<b>0.03</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>	<b>0.00</b>	<b>10.41</b>	<b>10.41</b>	<b>0.00</b>	<b>0.00</b>	<b>10.44</b>



### 3.3 Grading - 2011

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.00	0.00	0.07
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.00	0.00	0.27
<b>Total</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>0.34</b>	<b>0.34</b>	<b>0.00</b>	<b>0.00</b>	<b>0.34</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					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.05	0.06	0.00		0.00	0.00		0.00	0.00	0.00	10.41	10.41	0.00	0.00	10.44
<b>Total</b>	<b>0.01</b>	<b>0.05</b>	<b>0.06</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>10.41</b>	<b>10.41</b>	<b>0.00</b>	<b>0.00</b>	<b>10.44</b>

### 3.3 Grading - 2011

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.00	0.00	0.07
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.27	0.00	0.00	0.27
<b>Total</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>0.34</b>	<b>0.34</b>	<b>0.00</b>	<b>0.00</b>	<b>0.34</b>

### 3.4 Building Construction - 2011

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.67	3.59	2.24	0.00		0.25	0.25		0.25	0.25	0.00	322.55	322.55	0.05	0.00	323.70
<b>Total</b>	<b>0.67</b>	<b>3.59</b>	<b>2.24</b>	<b>0.00</b>		<b>0.25</b>	<b>0.25</b>		<b>0.25</b>	<b>0.25</b>	<b>0.00</b>	<b>322.55</b>	<b>322.55</b>	<b>0.05</b>	<b>0.00</b>	<b>323.70</b>

### 3.4 Building Construction - 2011

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	0.02	0.26	0.19	0.00	0.01	0.01	0.02	0.00	0.01	0.01	0.00	34.79	34.79	0.00	0.00	34.81
Worker	0.04	0.04	0.41	0.00	0.07	0.00	0.07	0.00	0.00	0.00	0.00	53.49	53.49	0.00	0.00	53.56
<b>Total</b>	<b>0.06</b>	<b>0.30</b>	<b>0.60</b>	<b>0.00</b>	<b>0.08</b>	<b>0.01</b>	<b>0.09</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>88.28</b>	<b>88.28</b>	<b>0.00</b>	<b>0.00</b>	<b>88.37</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	0.40	1.98	2.17	0.00		0.17	0.17		0.17	0.17	0.00	322.55	322.55	0.05	0.00	323.70
<b>Total</b>	<b>0.40</b>	<b>1.98</b>	<b>2.17</b>	<b>0.00</b>		<b>0.17</b>	<b>0.17</b>		<b>0.17</b>	<b>0.17</b>	<b>0.00</b>	<b>322.55</b>	<b>322.55</b>	<b>0.05</b>	<b>0.00</b>	<b>323.70</b>

### 3.4 Building Construction - 2011

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	0.02	0.26	0.19	0.00	0.01	0.01	0.02	0.00	0.01	0.01	0.00	34.79	34.79	0.00	0.00	34.81
Worker	0.04	0.04	0.41	0.00	0.07	0.00	0.07	0.00	0.00	0.00	0.00	53.49	53.49	0.00	0.00	53.56
<b>Total</b>	<b>0.06</b>	<b>0.30</b>	<b>0.60</b>	<b>0.00</b>	<b>0.08</b>	<b>0.01</b>	<b>0.09</b>	<b>0.00</b>	<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>88.28</b>	<b>88.28</b>	<b>0.00</b>	<b>0.00</b>	<b>88.37</b>

### 3.5 Paving - 2011

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.02	0.14	0.09	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.02</b>	<b>0.14</b>	<b>0.09</b>	<b>0.00</b>		<b>0.01</b>	<b>0.01</b>		<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>10.85</b>	<b>10.85</b>	<b>0.00</b>	<b>0.00</b>	<b>10.89</b>

### 3.5 Paving - 2011

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.66	0.00	0.00	0.66
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</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>0.66</b>	<b>0.66</b>	<b>0.00</b>	<b>0.00</b>	<b>0.66</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	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.01</b>	<b>0.06</b>	<b>0.08</b>	<b>0.00</b>		<b>0.01</b>	<b>0.01</b>		<b>0.01</b>	<b>0.01</b>	<b>0.00</b>	<b>10.85</b>	<b>10.85</b>	<b>0.00</b>	<b>0.00</b>	<b>10.89</b>

### 3.5 Paving - 2011

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.66	0.00	0.00	0.66
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</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>0.66</b>	<b>0.66</b>	<b>0.00</b>	<b>0.00</b>	<b>0.66</b>

### 3.6 Architectural Coating - 2011

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.72					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
<b>Total</b>	<b>2.72</b>	<b>0.02</b>	<b>0.01</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>1.28</b>	<b>1.28</b>	<b>0.00</b>	<b>0.00</b>	<b>1.28</b>

### 3.6 Architectural Coating - 2011

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.00	0.00	0.49
<b>Total</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>0.49</b>	<b>0.49</b>	<b>0.00</b>	<b>0.00</b>	<b>0.49</b>

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.72					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
<b>Total</b>	<b>2.72</b>	<b>0.01</b>	<b>0.01</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>1.28</b>	<b>1.28</b>	<b>0.00</b>	<b>0.00</b>	<b>1.28</b>

### 3.6 Architectural Coating - 2011

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	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
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.00	0.00	0.49
<b>Total</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>0.49</b>	<b>0.49</b>	<b>0.00</b>	<b>0.00</b>	<b>0.49</b>

## 4.0 Mobile Detail

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### 4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Destination Accessibility
- Increase Transit Accessibility
- Integrate Below Market Rate Housing
- Improve Pedestrian Network
- Implement NEV Network



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.68	5.04	30.24	0.03	2.70	0.14	2.85	0.04	0.14	0.18	0.00	2,352.56	2,352.56	0.15	0.00	2,355.73
Unmitigated	4.72	7.25	40.52	0.04	4.67	0.23	4.90	0.07	0.22	0.29	0.00	3,904.91	3,904.91	0.22	0.00	3,909.45
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	659.00	716.00	607.00	1,822,838	1,056,311
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	449.75	471.80	360.80	522,142	302,574
Supermarket	4,600.80	7,991.55	7489.80	6,253,559	3,623,854
<b>Total</b>	<b>5,709.55</b>	<b>9,179.35</b>	<b>8,457.60</b>	<b>8,598,540</b>	<b>4,982,739</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %		
	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
Apartments Mid Rise	10.80	7.30	7.50	32.90	18.00	49.10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00

Land Use	Miles			Trip %		
	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
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00

## 5.0 Energy Detail

### 5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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						0.00	0.00		0.00	0.00	0.00	674.60	674.60	0.03	0.01	678.83
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	691.95	691.95	0.03	0.01	696.29
NaturalGas Mitigated	0.02	0.15	0.11	0.00		0.00	0.01		0.00	0.01	0.00	169.70	169.70	0.00	0.00	170.73
NaturalGas Unmitigated	0.02	0.17	0.12	0.00		0.00	0.01		0.00	0.01	0.00	184.78	184.78	0.00	0.00	185.90
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 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	tons/yr										MT/yr					
Apartments Mid Rise	1.19733e+006	0.01	0.06	0.02	0.00		0.00	0.00		0.00	0.00	0.00	63.89	63.89	0.00	0.00	64.28
Parking Lot	0	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
Quality Restaurant	1.31715e+006	0.01	0.06	0.05	0.00		0.00	0.00		0.00	0.00	0.00	70.29	70.29	0.00	0.00	70.72
Supermarket	948150	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00	0.00	50.60	50.60	0.00	0.00	50.90
<b>Total</b>		<b>0.03</b>	<b>0.17</b>	<b>0.11</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>184.78</b>	<b>184.78</b>	<b>0.00</b>	<b>0.00</b>	<b>185.90</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	tons/yr										MT/yr					
Apartments Mid Rise	1.04743e+006	0.01	0.05	0.02	0.00		0.00	0.00		0.00	0.00	0.00	55.89	55.89	0.00	0.00	56.23
Parking Lot	0	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
Quality Restaurant	1.25515e+006	0.01	0.06	0.05	0.00		0.00	0.00		0.00	0.00	0.00	66.98	66.98	0.00	0.00	67.39
Supermarket	877477	0.00	0.04	0.04	0.00		0.00	0.00		0.00	0.00	0.00	46.83	46.83	0.00	0.00	47.11
<b>Total</b>		<b>0.02</b>	<b>0.15</b>	<b>0.11</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>169.70</b>	<b>169.70</b>	<b>0.00</b>	<b>0.00</b>	<b>170.73</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	351203					102.15	0.00	0.00	102.79
Parking Lot	0					0.00	0.00	0.00	0.00
Quality Restaurant	196650					57.20	0.00	0.00	57.56
Supermarket	1.83105e+006					532.60	0.02	0.01	535.94
<b>Total</b>						<b>691.95</b>	<b>0.02</b>	<b>0.01</b>	<b>696.29</b>

#### Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	344466					100.20	0.00	0.00	100.82
Parking Lot	-2023.5					-0.59	0.00	0.00	-0.59
Quality Restaurant	186647					54.29	0.00	0.00	54.63
Supermarket	1.79015e+006					520.70	0.02	0.01	523.96
<b>Total</b>						<b>674.60</b>	<b>0.02</b>	<b>0.01</b>	<b>678.82</b>

## 6.0 Area Detail

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### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.08	0.01	0.78	0.00		0.00	0.00		0.00	0.00	0.00	1.23	1.23	0.00	0.00	1.26
Unmitigated	1.08	0.01	0.78	0.00		0.00	0.00		0.00	0.00	0.00	1.23	1.23	0.00	0.00	1.26
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 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	0.27					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.78					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	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
Landscaping	0.03	0.01	0.78	0.00		0.00	0.00		0.00	0.00	0.00	1.23	1.23	0.00	0.00	0.00	1.26
<b>Total</b>	<b>1.08</b>	<b>0.01</b>	<b>0.78</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>1.23</b>	<b>1.23</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.26</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	0.27					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.78					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	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
Landscaping	0.03	0.01	0.78	0.00		0.00	0.00		0.00	0.00	0.00	1.23	1.23	0.00	0.00	0.00	1.26
<b>Total</b>	<b>1.08</b>	<b>0.01</b>	<b>0.78</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>1.23</b>	<b>1.23</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.26</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					65.58	0.00	0.01	69.17
Unmitigated					65.58	0.00	0.01	69.17
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	6.5154 / 4.10754					37.95	0.00	0.01	39.72
Parking Lot	0 / 0					0.00	0.00	0.00	0.00
Quality Restaurant	1.51767 / 0.0968725					6.06	0.00	0.00	6.46
Supermarket	5.54707 / 0.171559					21.56	0.00	0.00	23.00
<b>Total</b>						<b>65.57</b>	<b>0.00</b>	<b>0.01</b>	<b>69.18</b>

### Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	6.5154 / 4.10754					37.95	0.00	0.01	39.72
Parking Lot	0 / 0					0.00	0.00	0.00	0.00
Quality Restaurant	1.51767 / 0.0968725					6.06	0.00	0.00	6.46
Supermarket	5.54707 / 0.171559					21.56	0.00	0.00	23.00
<b>Total</b>						<b>65.57</b>	<b>0.00</b>	<b>0.01</b>	<b>69.18</b>



## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

**Category/Year**

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					61.78	3.65	0.00	138.46
Unmitigated					61.78	3.65	0.00	138.46
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	46					9.34	0.55	0.00	20.93
Parking Lot	0					0.00	0.00	0.00	0.00
Quality Restaurant	4.56					0.93	0.05	0.00	2.07
Supermarket	253.8					51.52	3.04	0.00	115.46
<b>Total</b>						<b>61.79</b>	<b>3.64</b>	<b>0.00</b>	<b>138.46</b>

### Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	46					9.34	0.55	0.00	20.93
Parking Lot	0					0.00	0.00	0.00	0.00
Quality Restaurant	4.56					0.93	0.05	0.00	2.07
Supermarket	253.8					51.52	3.04	0.00	115.46
<b>Total</b>						<b>61.79</b>	<b>3.64</b>	<b>0.00</b>	<b>138.46</b>

## 9.0 Vegetation

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	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons				MT			
Unmitigated					4.72	0.00	0.00	4.72
<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

## 9.1 Vegetation Land Change

### Vegetation Type

	Initial/Final	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	Acres	tons				MT			
Grassland	3.25 / 0.96					-9.87	0.00	0.00	-9.87
<b>Total</b>						<b>-9.87</b>	<b>0.00</b>	<b>0.00</b>	<b>-9.87</b>

## 9.1 Net New Trees

### Species Class

	Number of Trees	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
		tons				MT			
Hardwood Maple	14					14.59	0.00	0.00	14.59
<b>Total</b>						<b>14.59</b>	<b>0.00</b>	<b>0.00</b>	<b>14.59</b>