

**California Mixed Use Complex - SAC  
Sacramento County, Summer**

**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**

**Urbanization** Urban                      **Wind Speed (m/s)** 3.5                      **Utility Company** Sacramento Municipal Utility District  
**Climate Zone** 6                              **Precipitation Freq (Days)** 58

**1.3 User Entered Comments**

Project Characteristics -

Land Use - Building lot acreage is 1.6 acres. Zeroed out acres on non-residential since this is a multi-story, mixed use project. 0.5 acres of open space included in project but not modeled or used to calculate density.

Construction Phase - Project proponent reduced the construction schedule in half the time of defaults.

Off-road Equipment - Doubling equipment list since halving the construction schedule.

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Grading - Exporting 32 cubic yards soil during site prep. Exporting 16 cubic yards soil during grading.

Water And Wastewater - Project wastewater will be processed at a facility with aerobic treatment.

Land Use Change - grassland acres initially 3.25, final 1.0

Sequestration - planting 14 hardwood maple trees.

Construction Off-road Equipment Mitigation - All equipment using tier 3 engines. No DPFs. Water exposed area 2x/day.

Mobile Land Use Mitigation - 36 du/acre density, distance to downtown 0.2 miles, distance to transit 0.01, connecting ped network on and off-site

Energy Mitigation - Title 24 exceed by 15% - LEED. Solar panels on roof - 5 kW system - 8,094 annaul electricity generation.

Demolition -

## **2.0 Emissions Summary**

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## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2011	1,089.59	84.22	53.62	0.09	13.42	5.10	18.01	6.63	5.10	11.23	0.00	8,340.87	0.00	1.20	0.00	8,366.04
<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>

### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2011	1,088.95	41.67	52.42	0.09	6.21	3.24	8.87	2.99	3.24	5.66	0.00	8,340.87	0.00	1.20	0.00	8,366.04
<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>

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.07	0.10	8.68	0.00		0.00	0.04		0.00	0.04	0.00	15.04		0.02	0.00	15.39
Energy	0.10	0.90	0.61	0.01		0.00	0.07		0.00	0.07		1,103.74		0.02	0.02	1,110.46
Mobile	43.95	68.01	329.17	0.37	38.86	2.12	40.98	1.33	2.12	3.45		36,386.64		2.08		36,430.36
<b>Total</b>	<b>50.12</b>	<b>69.01</b>	<b>338.46</b>	<b>0.38</b>	<b>38.86</b>	<b>2.12</b>	<b>41.09</b>	<b>1.33</b>	<b>2.12</b>	<b>3.56</b>	<b>0.00</b>	<b>37,505.42</b>		<b>2.12</b>	<b>0.02</b>	<b>37,556.21</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.07	0.10	8.68	0.00		0.00	0.04		0.00	0.04	0.00	15.04		0.02	0.00	15.39
Energy	0.09	0.81	0.56	0.00		0.00	0.06		0.00	0.06		996.65		0.02	0.02	1,002.72
Mobile	35.88	46.65	235.83	0.22	22.32	1.31	23.63	0.77	1.31	2.08		21,732.20		1.38		21,761.21
<b>Total</b>	<b>42.04</b>	<b>47.56</b>	<b>245.07</b>	<b>0.22</b>	<b>22.32</b>	<b>1.31</b>	<b>23.73</b>	<b>0.77</b>	<b>1.31</b>	<b>2.18</b>	<b>0.00</b>	<b>22,743.89</b>		<b>1.42</b>	<b>0.02</b>	<b>22,779.32</b>

## 3.0 Construction Detail

### 3.1 Mitigation Measures Construction

Use Cleaner Engines 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	lb/day										lb/day					
Fugitive Dust					2.39	0.00	2.39	0.00	0.00	0.00						0.00
Off-Road	9.36	79.04	39.20	0.07		3.91	3.91		3.91	3.91		7,835.54		0.84		7,853.14
<b>Total</b>	<b>9.36</b>	<b>79.04</b>	<b>39.20</b>	<b>0.07</b>	<b>2.39</b>	<b>3.91</b>	<b>6.30</b>	<b>0.00</b>	<b>3.91</b>	<b>3.91</b>		<b>7,835.54</b>		<b>0.84</b>		<b>7,853.14</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.12	1.25	0.87	0.00	0.10	0.04	0.14	0.01	0.04	0.05		160.99		0.01		161.11
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
Worker	0.12	0.11	1.17	0.00	0.20	0.01	0.20	0.01	0.01	0.01		158.45		0.01		158.67
<b>Total</b>	<b>0.24</b>	<b>1.36</b>	<b>2.04</b>	<b>0.00</b>	<b>0.30</b>	<b>0.05</b>	<b>0.34</b>	<b>0.02</b>	<b>0.05</b>	<b>0.06</b>		<b>319.44</b>		<b>0.02</b>		<b>319.78</b>

### 3.2 Site Preparation - 2011

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					1.08	0.00	1.08	0.00	0.00	0.00							0.00
Off-Road	5.64	36.36	41.08	0.07		2.50	2.50		2.50	2.50	0.00	7,835.54		0.84			7,853.14
<b>Total</b>	<b>5.64</b>	<b>36.36</b>	<b>41.08</b>	<b>0.07</b>	<b>1.08</b>	<b>2.50</b>	<b>3.58</b>	<b>0.00</b>	<b>2.50</b>	<b>2.50</b>	<b>0.00</b>	<b>7,835.54</b>		<b>0.84</b>			<b>7,853.14</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.12	1.25	0.87	0.00	0.10	0.04	0.14	0.01	0.04	0.05		160.99		0.01		161.11
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
Worker	0.12	0.11	1.17	0.00	0.20	0.01	0.20	0.01	0.01	0.01		158.45		0.01		158.67
<b>Total</b>	<b>0.24</b>	<b>1.36</b>	<b>2.04</b>	<b>0.00</b>	<b>0.30</b>	<b>0.05</b>	<b>0.34</b>	<b>0.02</b>	<b>0.05</b>	<b>0.06</b>		<b>319.44</b>		<b>0.02</b>		<b>319.78</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	lb/day										lb/day					
Fugitive Dust					13.11	0.00	13.11	6.62	0.00	6.62						0.00
Off-Road	10.51	83.66	47.81	0.07		4.58	4.58		4.58	4.58		7,655.17		0.94		7,675.00
<b>Total</b>	<b>10.51</b>	<b>83.66</b>	<b>47.81</b>	<b>0.07</b>	<b>13.11</b>	<b>4.58</b>	<b>17.69</b>	<b>6.62</b>	<b>4.58</b>	<b>11.20</b>		<b>7,655.17</b>		<b>0.94</b>		<b>7,675.00</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.04	0.42	0.29	0.00	0.05	0.01	0.06	0.00	0.01	0.02		53.66		0.00		53.70
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
Worker	0.16	0.14	1.56	0.00	0.26	0.01	0.27	0.01	0.01	0.02		211.27		0.01		211.55
<b>Total</b>	<b>0.20</b>	<b>0.56</b>	<b>1.85</b>	<b>0.00</b>	<b>0.31</b>	<b>0.02</b>	<b>0.33</b>	<b>0.01</b>	<b>0.02</b>	<b>0.04</b>		<b>264.93</b>		<b>0.01</b>		<b>265.25</b>

### 3.3 Grading - 2011

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					5.90	0.00	5.90	2.98	0.00	2.98							0.00
Off-Road	5.64	36.04	41.65	0.07		2.65	2.65		2.65	2.65	0.00	7,655.17		0.94			7,675.00
<b>Total</b>	<b>5.64</b>	<b>36.04</b>	<b>41.65</b>	<b>0.07</b>	<b>5.90</b>	<b>2.65</b>	<b>8.55</b>	<b>2.98</b>	<b>2.65</b>	<b>5.63</b>	<b>0.00</b>	<b>7,655.17</b>		<b>0.94</b>			<b>7,675.00</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.04	0.42	0.29	0.00	0.05	0.01	0.06	0.00	0.01	0.02		53.66		0.00			53.70
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
Worker	0.16	0.14	1.56	0.00	0.26	0.01	0.27	0.01	0.01	0.02		211.27		0.01			211.55
<b>Total</b>	<b>0.20</b>	<b>0.56</b>	<b>1.85</b>	<b>0.00</b>	<b>0.31</b>	<b>0.02</b>	<b>0.33</b>	<b>0.01</b>	<b>0.02</b>	<b>0.04</b>		<b>264.93</b>		<b>0.01</b>			<b>265.25</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	lb/day										lb/day					
Off-Road	12.25	65.33	40.71	0.07		4.50	4.50		4.50	4.50		6,466.22		1.10		6,489.29
<b>Total</b>	<b>12.25</b>	<b>65.33</b>	<b>40.71</b>	<b>0.07</b>		<b>4.50</b>	<b>4.50</b>		<b>4.50</b>	<b>4.50</b>		<b>6,466.22</b>		<b>1.10</b>		<b>6,489.29</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	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	0.52	4.96	4.35	0.01	0.25	0.15	0.40	0.02	0.15	0.17		712.66		0.03		713.20
Worker	0.87	0.78	8.56	0.01	1.44	0.04	1.47	0.05	0.04	0.09		1,161.99		0.07		1,163.55
<b>Total</b>	<b>1.39</b>	<b>5.74</b>	<b>12.91</b>	<b>0.02</b>	<b>1.69</b>	<b>0.19</b>	<b>1.87</b>	<b>0.07</b>	<b>0.19</b>	<b>0.26</b>		<b>1,874.65</b>		<b>0.10</b>		<b>1,876.75</b>

### 3.4 Building Construction - 2011

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	7.29	35.93	39.51	0.07		3.05	3.05		3.05	3.05	0.00	6,466.22		1.10		6,489.29
<b>Total</b>	<b>7.29</b>	<b>35.93</b>	<b>39.51</b>	<b>0.07</b>		<b>3.05</b>	<b>3.05</b>		<b>3.05</b>	<b>3.05</b>	<b>0.00</b>	<b>6,466.22</b>		<b>1.10</b>		<b>6,489.29</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	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	0.52	4.96	4.35	0.01	0.25	0.15	0.40	0.02	0.15	0.17		712.66		0.03		713.20
Worker	0.87	0.78	8.56	0.01	1.44	0.04	1.47	0.05	0.04	0.09		1,161.99		0.07		1,163.55
<b>Total</b>	<b>1.39</b>	<b>5.74</b>	<b>12.91</b>	<b>0.02</b>	<b>1.69</b>	<b>0.19</b>	<b>1.87</b>	<b>0.07</b>	<b>0.19</b>	<b>0.26</b>		<b>1,874.65</b>		<b>0.10</b>		<b>1,876.75</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	lb/day										lb/day					
Off-Road	9.46	57.93	34.25	0.05		5.09	5.09		5.09	5.09		4,786.84		0.85		4,804.64
Paving	0.60					0.00	0.00		0.00	0.00						0.00
<b>Total</b>	<b>10.06</b>	<b>57.93</b>	<b>34.25</b>	<b>0.05</b>		<b>5.09</b>	<b>5.09</b>		<b>5.09</b>	<b>5.09</b>		<b>4,786.84</b>		<b>0.85</b>		<b>4,804.64</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	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
Worker	0.24	0.21	2.33	0.00	0.39	0.01	0.40	0.01	0.01	0.02		316.91		0.02		317.33
<b>Total</b>	<b>0.24</b>	<b>0.21</b>	<b>2.33</b>	<b>0.00</b>	<b>0.39</b>	<b>0.01</b>	<b>0.40</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>316.91</b>		<b>0.02</b>		<b>317.33</b>

### 3.5 Paving - 2011

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.12	24.74	30.51	0.05		2.47	2.47		2.47	2.47	0.00	4,786.84		0.85		4,804.64
Paving	0.60					0.00	0.00		0.00	0.00						0.00
<b>Total</b>	<b>4.72</b>	<b>24.74</b>	<b>30.51</b>	<b>0.05</b>		<b>2.47</b>	<b>2.47</b>		<b>2.47</b>	<b>2.47</b>	<b>0.00</b>	<b>4,786.84</b>		<b>0.85</b>		<b>4,804.64</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	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
Worker	0.24	0.21	2.33	0.00	0.39	0.01	0.40	0.01	0.01	0.02		316.91		0.02		317.33
<b>Total</b>	<b>0.24</b>	<b>0.21</b>	<b>2.33</b>	<b>0.00</b>	<b>0.39</b>	<b>0.01</b>	<b>0.40</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>316.91</b>		<b>0.02</b>		<b>317.33</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	lb/day										lb/day					
Archit. Coating	1,088.29					0.00	0.00		0.00	0.00						0.00
Off-Road	1.13	6.73	3.96	0.01		0.62	0.62		0.62	0.62		562.38		0.10		564.50
<b>Total</b>	<b>1,089.42</b>	<b>6.73</b>	<b>3.96</b>	<b>0.01</b>		<b>0.62</b>	<b>0.62</b>		<b>0.62</b>	<b>0.62</b>		<b>562.38</b>		<b>0.10</b>		<b>564.50</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	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
Worker	0.17	0.16	1.71	0.00	0.29	0.01	0.29	0.01	0.01	0.02		232.40		0.01		232.71
<b>Total</b>	<b>0.17</b>	<b>0.16</b>	<b>1.71</b>	<b>0.00</b>	<b>0.29</b>	<b>0.01</b>	<b>0.29</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>232.40</b>		<b>0.01</b>		<b>232.71</b>

### 3.6 Architectural Coating - 2011

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1,088.29					0.00	0.00		0.00	0.00						0.00
Off-Road	0.49	2.97	3.66	0.01		0.30	0.30		0.30	0.30	0.00	562.38		0.10		564.50
<b>Total</b>	<b>1,088.78</b>	<b>2.97</b>	<b>3.66</b>	<b>0.01</b>		<b>0.30</b>	<b>0.30</b>		<b>0.30</b>	<b>0.30</b>	<b>0.00</b>	<b>562.38</b>		<b>0.10</b>		<b>564.50</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	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
Worker	0.17	0.16	1.71	0.00	0.29	0.01	0.29	0.01	0.01	0.02		232.40		0.01		232.71
<b>Total</b>	<b>0.17</b>	<b>0.16</b>	<b>1.71</b>	<b>0.00</b>	<b>0.29</b>	<b>0.01</b>	<b>0.29</b>	<b>0.01</b>	<b>0.01</b>	<b>0.02</b>		<b>232.40</b>		<b>0.01</b>		<b>232.71</b>

### 4.0 Mobile Detail

#### 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	lb/day										lb/day					
Mitigated	35.88	46.65	235.83	0.22	22.32	1.31	23.63	0.77	1.31	2.08		21,732.20		1.38		21,761.21
Unmitigated	43.95	68.01	329.17	0.37	38.86	2.12	40.98	1.33	2.12	3.45		36,386.64		2.08		36,430.36
<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	1,047,049
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	449.75	471.80	360.80	532,765	306,024

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Supermarket	4,600.80	7,991.55	7489.80	6,323,738	3,632,392
Total	5,709.55	9,179.35	8,457.60	8,679,341	4,985,464

### 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	10.80	7.30	7.30	0.00	0.00	0.00
Quality Restaurant	10.80	7.30	7.30	12.00	69.00	19.00
Supermarket	10.80	7.30	7.30	6.50	74.50	19.00

## 5.0 Energy Detail

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### 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	lb/day										lb/day					
NaturalGas Mitigated	0.09	0.81	0.56	0.00		0.00	0.06		0.00	0.06		996.65		0.02	0.02	1,002.72
NaturalGas Unmitigated	0.10	0.90	0.61	0.01		0.00	0.07		0.00	0.07		1,103.74		0.02	0.02	1,110.46
<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>	<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	lb/day										lb/day					
Apartments Mid Rise	3669.62	0.04	0.34	0.14	0.00		0.00	0.03		0.00	0.03		431.72		0.01	0.01	434.35
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
Quality Restaurant	2477.12	0.03	0.24	0.20	0.00		0.00	0.02		0.00	0.02		291.43		0.01	0.01	293.20
Supermarket	3235.07	0.03	0.32	0.27	0.00		0.00	0.02		0.00	0.02		380.60		0.01	0.01	382.91
<b>Total</b>		<b>0.10</b>	<b>0.90</b>	<b>0.61</b>	<b>0.00</b>		<b>0.00</b>	<b>0.07</b>		<b>0.00</b>	<b>0.07</b>		<b>1,103.75</b>		<b>0.03</b>	<b>0.03</b>	<b>1,110.46</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	lb/day										lb/day					
Apartments Mid Rise	3.20018	0.03	0.29	0.13	0.00		0.00	0.02		0.00	0.02		376.49		0.01	0.01	378.78
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
Quality Restaurant	2.3481	0.03	0.23	0.19	0.00		0.00	0.02		0.00	0.02		276.25		0.01	0.01	277.93
Supermarket	2.92327	0.03	0.29	0.24	0.00		0.00	0.02		0.00	0.02		343.91		0.01	0.01	346.01
<b>Total</b>		<b>0.09</b>	<b>0.81</b>	<b>0.56</b>	<b>0.00</b>		<b>0.00</b>	<b>0.06</b>		<b>0.00</b>	<b>0.06</b>		<b>996.65</b>		<b>0.03</b>	<b>0.03</b>	<b>1,002.72</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	lb/day										lb/day					
Mitigated	6.07	0.10	8.68	0.00		0.00	0.04		0.00	0.04	0.00	15.04		0.02	0.00	15.39
Unmitigated	6.07	0.10	8.68	0.00		0.00	0.04		0.00	0.04	0.00	15.04		0.02	0.00	15.39
<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	lb/day										lb/day					
Architectural Coating	1.49					0.00	0.00		0.00	0.00						0.00
Consumer Products	4.28					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
Landscaping	0.30	0.10	8.68	0.00		0.00	0.04		0.00	0.04		15.04		0.02		15.39
<b>Total</b>	<b>6.07</b>	<b>0.10</b>	<b>8.68</b>	<b>0.00</b>		<b>0.00</b>	<b>0.04</b>		<b>0.00</b>	<b>0.04</b>	<b>0.00</b>	<b>15.04</b>		<b>0.02</b>	<b>0.00</b>	<b>15.39</b>

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.49					0.00	0.00		0.00	0.00						0.00
Consumer Products	4.28					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
Landscaping	0.30	0.10	8.68	0.00		0.00	0.04		0.00	0.04		15.04		0.02		15.39
<b>Total</b>	<b>6.07</b>	<b>0.10</b>	<b>8.68</b>	<b>0.00</b>		<b>0.00</b>	<b>0.04</b>		<b>0.00</b>	<b>0.04</b>	<b>0.00</b>	<b>15.04</b>		<b>0.02</b>	<b>0.00</b>	<b>15.39</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Vegetation

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