

Nevada County Housing Element  
Nevada County, Annual

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric
Apartments Low Rise	840	Dwelling Unit

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>		<b>Utility Company</b>	Pacific Gas & Electric Company
<b>Climate Zone</b>	1		2.2		
		<b>Precipitation Freq (Days)</b>			
			80		

**1.3 User Entered Comments**

- Project Characteristics -
- Land Use -
- Construction Phase -
- Mobile Land Use Mitigation -
- Area Mitigation -
- Water Mitigation -
- Vehicle Trips - trip rate per traffic study

**2.0 Emissions Summary**

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## 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	57.58	0.79	71.39	0.03		0.00	9.21		0.00	9.21	867.68	1,101.99	1,969.67	0.83	0.08	2,012.30
Energy	0.06	0.54	0.23	0.00		0.00	0.04		0.00	0.04	0.00	1,491.49	1,491.49	0.05	0.03	1,500.72
Mobile	12.52	42.03	111.32	0.13	11.28	1.24	12.51	0.56	1.24	1.80	0.00	13,242.20	13,242.20	0.68	0.00	13,256.47
Waste						0.00	0.00		0.00	0.00	78.44	0.00	78.44	4.64	0.00	175.78
Water						0.00	0.00		0.00	0.00	0.00	121.90	121.90	1.68	0.04	170.58
<b>Total</b>	<b>70.16</b>	<b>43.36</b>	<b>182.94</b>	<b>0.16</b>	<b>11.28</b>	<b>1.24</b>	<b>21.76</b>	<b>0.56</b>	<b>1.24</b>	<b>11.05</b>	<b>946.12</b>	<b>15,957.58</b>	<b>16,903.70</b>	<b>7.88</b>	<b>0.15</b>	<b>17,115.85</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	tons/yr										MT/yr					
Area	4.98	0.08	6.47	0.00		0.00	0.16		0.00	0.16	0.00	1,796.69	1,796.69	0.05	0.03	1,807.80
Energy	0.06	0.54	0.23	0.00		0.00	0.04		0.00	0.04	0.00	1,491.49	1,491.49	0.05	0.03	1,500.72
Mobile	12.52	42.03	111.32	0.13	11.28	1.24	12.51	0.56	1.24	1.80	0.00	13,242.20	13,242.20	0.68	0.00	13,256.47
Waste						0.00	0.00		0.00	0.00	78.44	0.00	78.44	4.64	0.00	175.78
Water						0.00	0.00		0.00	0.00	0.00	104.54	104.54	1.34	0.03	143.54
<b>Total</b>	<b>17.56</b>	<b>42.65</b>	<b>118.02</b>	<b>0.13</b>	<b>11.28</b>	<b>1.24</b>	<b>12.71</b>	<b>0.56</b>	<b>1.24</b>	<b>2.00</b>	<b>78.44</b>	<b>16,634.92</b>	<b>16,713.36</b>	<b>6.76</b>	<b>0.09</b>	<b>16,884.31</b>

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	12.52	42.03	111.32	0.13	11.28	1.24	12.51	0.56	1.24	1.80	0.00	13,242.20	13,242.20	0.68	0.00	13,256.47
Unmitigated	12.52	42.03	111.32	0.13	11.28	1.24	12.51	0.56	1.24	1.80	0.00	13,242.20	13,242.20	0.68	0.00	13,256.47
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	6,720.00	6,720.00	6,720.00	24,989,792	24,989,792
Total	6,720.00	6,720.00	6,720.00	24,989,792	24,989,792

### 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 Low Rise	16.80	7.10	7.90	42.30	19.60	38.10

## 5.0 Energy Detail

**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						0.00	0.00		0.00	0.00	0.00	861.15	861.15	0.04	0.01	866.55
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	861.15	861.15	0.04	0.01	866.55
NaturalGas Mitigated	0.06	0.54	0.23	0.00		0.00	0.04		0.00	0.04	0.00	630.33	630.33	0.01	0.01	634.17
NaturalGas Unmitigated	0.06	0.54	0.23	0.00		0.00	0.04		0.00	0.04	0.00	630.33	630.33	0.01	0.01	634.17
<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>	<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 Low Rise	1.1812e+007	0.06	0.54	0.23	0.00		0.00	0.04		0.00	0.04	0.00	630.33	630.33	0.01	0.01	634.17
<b>Total</b>		<b>0.06</b>	<b>0.54</b>	<b>0.23</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>630.33</b>	<b>630.33</b>	<b>0.01</b>	<b>0.01</b>	<b>634.17</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 Low Rise	1.1812e+007	0.06	0.54	0.23	0.00		0.00	0.04		0.00	0.04	0.00	630.33	630.33	0.01	0.01	634.17

Total		0.06	0.54	0.23	0.00		0.00	0.04		0.00	0.04	0.00	630.33	630.33	0.01	0.01	634.17
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### 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 Low Rise	2.96019e+006					861.15	0.04	0.01	866.55
<b>Total</b>						<b>861.15</b>	<b>0.04</b>	<b>0.01</b>	<b>866.55</b>

#### Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Low Rise	2.96019e+006					861.15	0.04	0.01	866.55
<b>Total</b>						<b>861.15</b>	<b>0.04</b>	<b>0.01</b>	<b>866.55</b>

## 6.0 Area Detail

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### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.98	0.08	6.47	0.00		0.00	0.16		0.00	0.16	0.00	1,796.69	1,796.69	0.05	0.03	1,807.80
Unmitigated	57.58	0.79	71.39	0.03		0.00	9.21		0.00	9.21	867.68	1,101.99	1,969.67	0.83	0.08	2,012.30
<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	1.31					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	3.28					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	52.78	0.72	64.93	0.03		0.00	9.17		0.00	9.17	867.68	1,091.68	1,959.37	0.81	0.08	2,001.77
Landscaping	0.21	0.08	6.46	0.00		0.00	0.03		0.00	0.03	0.00	10.30	10.30	0.01	0.00	10.53
<b>Total</b>	<b>57.58</b>	<b>0.80</b>	<b>71.39</b>	<b>0.03</b>		<b>0.00</b>	<b>9.20</b>		<b>0.00</b>	<b>9.20</b>	<b>867.68</b>	<b>1,101.98</b>	<b>1,969.67</b>	<b>0.82</b>	<b>0.08</b>	<b>2,012.30</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	1.31					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Consumer Products	3.28					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.18	0.00	0.01	0.00		0.00	0.12		0.00	0.12	0.00	1,786.39	1,786.39	0.03	0.03	1,797.26
Landscaping	0.21	0.08	6.46	0.00		0.00	0.03		0.00	0.03	0.00	10.30	10.30	0.01	0.00	10.53
<b>Total</b>	<b>4.98</b>	<b>0.08</b>	<b>6.47</b>	<b>0.00</b>		<b>0.00</b>	<b>0.15</b>		<b>0.00</b>	<b>0.15</b>	<b>0.00</b>	<b>1,796.69</b>	<b>1,796.69</b>	<b>0.04</b>	<b>0.03</b>	<b>1,807.79</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

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					104.54	1.34	0.03	143.54
Unmitigated					121.90	1.68	0.04	170.58
<b>Total</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 Low Rise	54.7294 / 34.5033					121.90	1.68	0.04	170.58
<b>Total</b>						<b>121.90</b>	<b>1.68</b>	<b>0.04</b>	<b>170.58</b>

**Mitigated**

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Low Rise	43.7835 / 34.5033					104.54	1.34	0.03	143.54
<b>Total</b>						<b>104.54</b>	<b>1.34</b>	<b>0.03</b>	<b>143.54</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					78.44	4.64	0.00	175.78
Unmitigated					78.44	4.64	0.00	175.78
<b>Total</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 Low Rise	386.4					78.44	4.64	0.00	175.78
<b>Total</b>						<b>78.44</b>	<b>4.64</b>	<b>0.00</b>	<b>175.78</b>

**Mitigated**

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Low Rise	386.4					78.44	4.64	0.00	175.78
<b>Total</b>						<b>78.44</b>	<b>4.64</b>	<b>0.00</b>	<b>175.78</b>

**Nevada County Housing Element  
Nevada County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric
Apartments Low Rise	840	Dwelling Unit

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>		<b>Utility Company</b>	Pacific Gas & Electric Company
<b>Climate Zone</b>	1		2.2		
		<b>Precipitation Freq (Days)</b>			
			80		

**1.3 User Entered Comments**

- Project Characteristics -
- Land Use -
- Construction Phase -
- Mobile Land Use Mitigation -
- Area Mitigation -
- Water Mitigation -
- Vehicle Trips - trip rate per traffic study

**2.0 Emissions Summary**

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## 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	470.54	8.72	726.17	0.62		0.00	95.58		0.00	95.57	10,819.44	9,909.83		21.66	0.73	21,410.87
Energy	0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42
Mobile	70.40	223.30	604.00	0.77	82.96	6.74	89.70	3.09	6.74	9.83		84,826.88		4.40		84,919.35
<b>Total</b>	<b>541.29</b>	<b>235.00</b>	<b>1,331.44</b>	<b>1.41</b>	<b>82.96</b>	<b>6.74</b>	<b>185.52</b>	<b>3.09</b>	<b>6.74</b>	<b>105.64</b>	<b>10,819.44</b>	<b>98,543.96</b>		<b>26.13</b>	<b>0.80</b>	<b>110,160.64</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	28.98	0.85	71.94	0.00		0.00	1.39		0.00	1.38	0.00	16,135.71		0.44	0.29	16,235.97
Energy	0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42
Mobile	70.40	223.30	604.00	0.77	82.96	6.74	89.70	3.09	6.74	9.83		84,826.88		4.40		84,919.35
<b>Total</b>	<b>99.73</b>	<b>227.13</b>	<b>677.21</b>	<b>0.79</b>	<b>82.96</b>	<b>6.74</b>	<b>91.33</b>	<b>3.09</b>	<b>6.74</b>	<b>11.45</b>	<b>0.00</b>	<b>104,769.84</b>		<b>4.91</b>	<b>0.36</b>	<b>104,985.74</b>

## 4.0 Mobile Detail

### 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	70.40	223.30	604.00	0.77	82.96	6.74	89.70	3.09	6.74	9.83		84,826.88		4.40		84,919.35
Unmitigated	70.40	223.30	604.00	0.77	82.96	6.74	89.70	3.09	6.74	9.83		84,826.88		4.40		84,919.35
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	6,720.00	6,720.00	6,720.00	24,989,792	24,989,792
Total	6,720.00	6,720.00	6,720.00	24,989,792	24,989,792

#### 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 Low Rise	16.80	7.10	7.90	42.30	19.60	38.10

### 5.0 Energy Detail

#### 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	lb/day										lb/day					

NaturalGas Mitigated	0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42
NaturalGas Unmitigated	0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

## 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 Low Rise	32361.7	0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42
Total		0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42

### 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 Low Rise	32.3617	0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42
Total		0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.98	0.85	71.94	0.00		0.00	1.39		0.00	1.38	0.00	16,135.71		0.44	0.29	16,235.97
Unmitigated	470.54	8.72	726.17	0.62		0.00	95.58		0.00	95.57	10,819.44	9,909.83		21.66	0.73	21,410.87
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**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	7.19					0.00	0.00		0.00	0.00						0.00
Consumer Products	17.98					0.00	0.00		0.00	0.00						0.00
Hearth	443.03	7.88	654.31	0.62		0.00	95.20		0.00	95.19	10,819.44	9,783.53		21.53	0.73	21,281.74
Landscaping	2.34	0.85	71.86	0.00		0.00	0.38		0.00	0.38		126.30		0.13		129.13
Total	470.54	8.73	726.17	0.62		0.00	95.58		0.00	95.57	10,819.44	9,909.83		21.66	0.73	21,410.87

**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	7.19					0.00	0.00		0.00	0.00						0.00
Consumer Products	17.98					0.00	0.00		0.00	0.00						0.00

Hearth	1.47	0.00	0.08	0.00		0.00	1.01		0.00	1.00	0.00	16,009.41		0.31	0.29	16,106.84
Landscaping	2.34	0.85	71.86	0.00		0.00	0.38		0.00	0.38		126.30		0.13		129.13
<b>Total</b>	<b>28.98</b>	<b>0.85</b>	<b>71.94</b>	<b>0.00</b>		<b>0.00</b>	<b>1.39</b>		<b>0.00</b>	<b>1.38</b>	<b>0.00</b>	<b>16,135.71</b>		<b>0.44</b>	<b>0.29</b>	<b>16,235.97</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Vegetation

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**Nevada County Housing Element  
Nevada County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric
Apartments Low Rise	840	Dwelling Unit

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>		<b>Utility Company</b>	Pacific Gas & Electric Company
<b>Climate Zone</b>	1		2.2		
		<b>Precipitation Freq (Days)</b>			
			80		

**1.3 User Entered Comments**

- Project Characteristics -
- Land Use -
- Construction Phase -
- Mobile Land Use Mitigation -
- Area Mitigation -
- Water Mitigation -
- Vehicle Trips - trip rate per traffic study

**2.0 Emissions Summary**

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## 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	470.54	8.72	726.17	0.62		0.00	95.58		0.00	95.57	10,819.44	9,909.83		21.66	0.73	21,410.87
Energy	0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42
Mobile	73.88	229.74	609.57	0.72	82.96	6.88	89.84	3.09	6.88	9.97		78,689.24		4.13		78,775.95
<b>Total</b>	<b>544.77</b>	<b>241.44</b>	<b>1,337.01</b>	<b>1.36</b>	<b>82.96</b>	<b>6.88</b>	<b>185.66</b>	<b>3.09</b>	<b>6.88</b>	<b>105.78</b>	<b>10,819.44</b>	<b>92,406.32</b>		<b>25.86</b>	<b>0.80</b>	<b>104,017.24</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	28.98	0.85	71.94	0.00		0.00	1.39		0.00	1.38	0.00	16,135.71		0.44	0.29	16,235.97
Energy	0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42
Mobile	73.88	229.74	609.57	0.72	82.96	6.88	89.84	3.09	6.88	9.97		78,689.24		4.13		78,775.95
<b>Total</b>	<b>103.21</b>	<b>233.57</b>	<b>682.78</b>	<b>0.74</b>	<b>82.96</b>	<b>6.88</b>	<b>91.47</b>	<b>3.09</b>	<b>6.88</b>	<b>11.59</b>	<b>0.00</b>	<b>98,632.20</b>		<b>4.64</b>	<b>0.36</b>	<b>98,842.34</b>

## 4.0 Mobile Detail

### 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	73.88	229.74	609.57	0.72	82.96	6.88	89.84	3.09	6.88	9.97			78,689.24	4.13		78,775.95
Unmitigated	73.88	229.74	609.57	0.72	82.96	6.88	89.84	3.09	6.88	9.97			78,689.24	4.13		78,775.95
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	6,720.00	6,720.00	6,720.00	24,989,792	24,989,792
Total	6,720.00	6,720.00	6,720.00	24,989,792	24,989,792

#### 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 Low Rise	16.80	7.10	7.90	42.30	19.60	38.10

### 5.0 Energy Detail

#### 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	lb/day										lb/day					
NaturalGas Mitigated	0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42
NaturalGas Unmitigated	0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

## 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 Low Rise	32361.7	0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42
Total		0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42

### 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 Low Rise	32.3617	0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42
Total		0.35	2.98	1.27	0.02		0.00	0.24		0.00	0.24		3,807.25		0.07	0.07	3,830.42

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.98	0.85	71.94	0.00		0.00	1.39		0.00	1.38	0.00	16,135.71		0.44	0.29	16,235.97
Unmitigated	470.54	8.72	726.17	0.62		0.00	95.58		0.00	95.57	10,819.44	9,909.83		21.66	0.73	21,410.87
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**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	7.19					0.00	0.00		0.00	0.00						0.00
Consumer Products	17.98					0.00	0.00		0.00	0.00						0.00
Hearth	443.03	7.88	654.31	0.62		0.00	95.20		0.00	95.19	10,819.44	9,783.53		21.53	0.73	21,281.74
Landscaping	2.34	0.85	71.86	0.00		0.00	0.38		0.00	0.38		126.30		0.13		129.13
Total	470.54	8.73	726.17	0.62		0.00	95.58		0.00	95.57	10,819.44	9,909.83		21.66	0.73	21,410.87

**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	7.19					0.00	0.00		0.00	0.00						0.00

Consumer Products	17.98					0.00	0.00		0.00	0.00						0.00
Hearth	1.47	0.00	0.08	0.00		0.00	1.01		0.00	1.00	0.00	16,009.41		0.31	0.29	16,106.84
Landscaping	2.34	0.85	71.86	0.00		0.00	0.38		0.00	0.38		126.30		0.13		129.13
<b>Total</b>	<b>28.98</b>	<b>0.85</b>	<b>71.94</b>	<b>0.00</b>		<b>0.00</b>	<b>1.39</b>		<b>0.00</b>	<b>1.38</b>	<b>0.00</b>	<b>16,135.71</b>		<b>0.44</b>	<b>0.29</b>	<b>16,235.97</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Vegetation

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**Nevada County Housing Element - Proposed**  
**Nevada County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric
Apartments Low Rise	2681	Dwelling Unit

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>		<b>Utility Company</b>	Pacific Gas & Electric Company
<b>Climate Zone</b>	1		2.2		
		<b>Precipitation Freq (Days)</b>			
			80		

**1.3 User Entered Comments**

- Project Characteristics -
- Land Use - proposed acreage
- Construction Phase -
- Mobile Land Use Mitigation -
- Area Mitigation -
- Water Mitigation -
- Vehicle Trips - Trip rate based on traffic study

**2.0 Emissions Summary**

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## 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	183.79	2.53	227.87	0.08		0.00	29.39		0.00	29.38	2,769.36	3,517.17	6,286.53	2.64	0.26	6,422.60
Energy	0.20	1.74	0.74	0.01		0.00	0.14		0.00	0.14	0.00	4,760.33	4,760.33	0.16	0.08	4,789.80
Mobile	28.97	97.26	257.59	0.31	26.09	2.86	28.96	1.30	2.86	4.17	0.00	30,641.90	30,641.90	1.57	0.00	30,674.91
Waste						0.00	0.00		0.00	0.00	250.34	0.00	250.34	14.79	0.00	561.03
Water						0.00	0.00		0.00	0.00	0.00	389.05	389.05	5.35	0.14	544.44
<b>Total</b>	<b>212.96</b>	<b>101.53</b>	<b>486.20</b>	<b>0.40</b>	<b>26.09</b>	<b>2.86</b>	<b>58.49</b>	<b>1.30</b>	<b>2.86</b>	<b>33.69</b>	<b>3,019.70</b>	<b>39,308.45</b>	<b>42,328.15</b>	<b>24.51</b>	<b>0.48</b>	<b>42,992.78</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	tons/yr										MT/yr					
Area	15.91	0.24	20.66	0.00		0.00	0.51		0.00	0.50	0.00	5,734.45	5,734.45	0.14	0.10	5,769.88
Energy	0.20	1.74	0.74	0.01		0.00	0.14		0.00	0.14	0.00	4,760.33	4,760.33	0.16	0.08	4,789.80
Mobile	28.95	97.20	257.44	0.31	26.07	2.86	28.93	1.30	2.86	4.16	0.00	30,619.11	30,619.11	1.57	0.00	30,652.10
Waste						0.00	0.00		0.00	0.00	250.34	0.00	250.34	14.79	0.00	561.03
Water						0.00	0.00		0.00	0.00	0.00	333.66	333.66	4.28	0.11	458.12
<b>Total</b>	<b>45.06</b>	<b>99.18</b>	<b>278.84</b>	<b>0.32</b>	<b>26.07</b>	<b>2.86</b>	<b>29.58</b>	<b>1.30</b>	<b>2.86</b>	<b>4.80</b>	<b>250.34</b>	<b>41,447.55</b>	<b>41,697.89</b>	<b>20.94</b>	<b>0.29</b>	<b>42,230.93</b>

#### 4.0 Mobile Detail

##### 4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	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	28.95	97.20	257.44	0.31	26.07	2.86	28.93	1.30	2.86	4.16	0.00	30,619.11	30,619.11	1.57	0.00	30,652.10
Unmitigated	28.97	97.26	257.59	0.31	26.09	2.86	28.96	1.30	2.86	4.17	0.00	30,641.90	30,641.90	1.57	0.00	30,674.91
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

##### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	15,549.80	15,549.80	15,549.80	57,825,338	57,780,600
Total	15,549.80	15,549.80	15,549.80	57,825,338	57,780,600

##### 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 Low Rise	16.80	7.10	7.90	42.30	19.60	38.10

#### 5.0 Energy Detail

##### 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						0.00	0.00		0.00	0.00	0.00	2,748.52	2,748.52	0.12	0.05	2,765.74
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	2,748.52	2,748.52	0.12	0.05	2,765.74
NaturalGas Mitigated	0.20	1.74	0.74	0.01		0.00	0.14		0.00	0.14	0.00	2,011.81	2,011.81	0.04	0.04	2,024.06
NaturalGas Unmitigated	0.20	1.74	0.74	0.01		0.00	0.14		0.00	0.14	0.00	2,011.81	2,011.81	0.04	0.04	2,024.06
<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 Low Rise	3.77e+007	0.20	1.74	0.74	0.01		0.00	0.14		0.00	0.14	0.00	2,011.81	2,011.81	0.04	0.04	2,024.06
<b>Total</b>		<b>0.20</b>	<b>1.74</b>	<b>0.74</b>	<b>0.01</b>		<b>0.00</b>	<b>0.14</b>		<b>0.00</b>	<b>0.14</b>	<b>0.00</b>	<b>2,011.81</b>	<b>2,011.81</b>	<b>0.04</b>	<b>0.04</b>	<b>2,024.06</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 Low Rise	3.77e+007	0.20	1.74	0.74	0.01		0.00	0.14		0.00	0.14	0.00	2,011.81	2,011.81	0.04	0.04	2,024.06
<b>Total</b>		<b>0.20</b>	<b>1.74</b>	<b>0.74</b>	<b>0.01</b>		<b>0.00</b>	<b>0.14</b>		<b>0.00</b>	<b>0.14</b>	<b>0.00</b>	<b>2,011.81</b>	<b>2,011.81</b>	<b>0.04</b>	<b>0.04</b>	<b>2,024.06</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 Low Rise	9.44795e+006					2,748.52	0.12	0.05	2,765.74
<b>Total</b>						<b>2,748.52</b>	<b>0.12</b>	<b>0.05</b>	<b>2,765.74</b>

#### Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Low Rise	9.44795e+006					2,748.52	0.12	0.05	2,765.74
<b>Total</b>						<b>2,748.52</b>	<b>0.12</b>	<b>0.05</b>	<b>2,765.74</b>

## 6.0 Area Detail

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### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

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

Mitigated	15.91	0.24	20.66	0.00		0.00	0.51		0.00	0.50	0.00	5,734.45	5,734.45	0.14	0.10	5,769.88
Unmitigated	183.79	2.53	227.87	0.08		0.00	29.39		0.00	29.38	2,769.36	3,517.17	6,286.53	2.64	0.26	6,422.60
<b>Total</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	4.19					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	10.47					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	168.46	2.28	207.24	0.08		0.00	29.28		0.00	29.27	2,769.36	3,484.29	6,253.65	2.60	0.26	6,388.98
Landscaping	0.67	0.24	20.62	0.00		0.00	0.11		0.00	0.11	0.00	32.89	32.89	0.04	0.00	33.62
<b>Total</b>	<b>183.79</b>	<b>2.52</b>	<b>227.86</b>	<b>0.08</b>		<b>0.00</b>	<b>29.39</b>		<b>0.00</b>	<b>29.38</b>	<b>2,769.36</b>	<b>3,517.18</b>	<b>6,286.54</b>	<b>2.64</b>	<b>0.26</b>	<b>6,422.60</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	4.19					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	10.47					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.58	0.00	0.03	0.00		0.00	0.40		0.00	0.39	0.00	5,701.56	5,701.56	0.11	0.10	5,736.26
Landscaping	0.67	0.24	20.62	0.00		0.00	0.11		0.00	0.11	0.00	32.89	32.89	0.04	0.00	33.62
<b>Total</b>	<b>15.91</b>	<b>0.24</b>	<b>20.65</b>	<b>0.00</b>		<b>0.00</b>	<b>0.51</b>		<b>0.00</b>	<b>0.50</b>	<b>0.00</b>	<b>5,734.45</b>	<b>5,734.45</b>	<b>0.15</b>	<b>0.10</b>	<b>5,769.88</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

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					333.66	4.28	0.11	458.12
Unmitigated					389.05	5.35	0.14	544.44
Total	NA	NA	NA	NA	NA	NA	NA	NA

### 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 Low Rise	174,678 / 110,123					389.05	5.35	0.14	544.44
Total						389.05	5.35	0.14	544.44

**Mitigated**

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Low Rise	139.742 / 110.123					333.66	4.28	0.11	458.12
<b>Total</b>						<b>333.66</b>	<b>4.28</b>	<b>0.11</b>	<b>458.12</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					250.34	14.79	0.00	561.03
Unmitigated					250.34	14.79	0.00	561.03
<b>Total</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 Low Rise	1233.26					250.34	14.79	0.00	561.03

Total						250.34	14.79	0.00	561.03
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**Mitigated**

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Low Rise	1233.26					250.34	14.79	0.00	561.03
<b>Total</b>						<b>250.34</b>	<b>14.79</b>	<b>0.00</b>	<b>561.03</b>

**Nevada County Housing Element - Proposed  
Nevada County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric
Apartments Low Rise	2681	Dwelling Unit

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>		<b>Utility Company</b>	Pacific Gas & Electric Company
<b>Climate Zone</b>	1		2.2		
		<b>Precipitation Freq (Days)</b>			
			80		

**1.3 User Entered Comments**

- Project Characteristics -
- Land Use - proposed acreage
- Construction Phase -
- Mobile Land Use Mitigation -
- Area Mitigation -
- Water Mitigation -
- Vehicle Trips - Trip rate based on traffic study

**2.0 Emissions Summary**

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## 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	1,501.81	27.85	2,317.69	1.99		0.00	305.05		0.00	305.03	34,532.04	31,628.88		69.14	2.33	68,336.35
Energy	1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44
Mobile	162.90	516.71	1,397.62	1.79	191.97	15.59	207.55	7.15	15.59	22.74		196,285.86		10.19		196,499.84
<b>Total</b>	<b>1,665.82</b>	<b>554.08</b>	<b>3,719.36</b>	<b>3.84</b>	<b>191.97</b>	<b>15.59</b>	<b>513.37</b>	<b>7.15</b>	<b>15.59</b>	<b>328.54</b>	<b>34,532.04</b>	<b>240,066.22</b>		<b>79.56</b>	<b>2.55</b>	<b>277,061.63</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	92.50	2.71	229.62	0.01		0.00	4.45		0.00	4.41	0.00	51,499.82		1.41	0.94	51,819.81
Energy	1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44
Mobile	162.81	516.40	1,396.69	1.79	191.82	15.58	207.39	7.15	15.58	22.72		196,139.80		10.18		196,353.64
<b>Total</b>	<b>256.42</b>	<b>528.63</b>	<b>1,630.36</b>	<b>1.86</b>	<b>191.82</b>	<b>15.58</b>	<b>212.61</b>	<b>7.15</b>	<b>15.58</b>	<b>27.90</b>	<b>0.00</b>	<b>259,791.10</b>		<b>11.82</b>	<b>1.16</b>	<b>260,398.89</b>

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	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	162.81	516.40	1,396.69	1.79	191.82	15.58	207.39	7.15	15.58	22.72			196,139.80	10.18		196,353.64
Unmitigated	162.90	516.71	1,397.62	1.79	191.97	15.59	207.55	7.15	15.59	22.74			196,285.86	10.19		196,499.84
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	15,549.80	15,549.80	15,549.80	57,825,338	57,780,600
Total	15,549.80	15,549.80	15,549.80	57,825,338	57,780,600

#### 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 Low Rise	16.80	7.10	7.90	42.30	19.60	38.10

### 5.0 Energy Detail

#### 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	lb/day										lb/day					
NaturalGas Mitigated	1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44
NaturalGas Unmitigated	1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

## 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 Low Rise	103288	1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44
Total		1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44

### 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 Low Rise	103.288	1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44
Total		1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	92.50	2.71	229.62	0.01		0.00	4.45		0.00	4.41	0.00	51,499.82		1.41	0.94	51,819.81
Unmitigated	1,501.81	27.85	2,317.69	1.99		0.00	305.05		0.00	305.03	34,532.04	31,628.88		69.14	2.33	68,336.35
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

### 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	22.96					0.00	0.00		0.00	0.00						0.00
Consumer Products	57.37					0.00	0.00		0.00	0.00						0.00
Hearth	1,413.99	25.14	2,088.33	1.97		0.00	303.83		0.00	303.81	34,532.04	31,225.76		68.71	2.33	67,924.21
Landscaping	7.48	2.71	229.37	0.01		0.00	1.21		0.00	1.21		403.11		0.43		412.14
Total	1,501.80	27.85	2,317.70	1.98		0.00	305.04		0.00	305.02	34,532.04	31,628.87		69.14	2.33	68,336.35

**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	22.96					0.00	0.00		0.00	0.00							0.00
Consumer Products	57.37					0.00	0.00		0.00	0.00							0.00
Hearth	4.68	0.00	0.26	0.00		0.00	3.24		0.00	3.20	0.00	51,096.71		0.98	0.94		51,407.67
Landscaping	7.48	2.71	229.37	0.01		0.00	1.21		0.00	1.21		403.11		0.43			412.14
<b>Total</b>	<b>92.49</b>	<b>2.71</b>	<b>229.63</b>	<b>0.01</b>		<b>0.00</b>	<b>4.45</b>		<b>0.00</b>	<b>4.41</b>	<b>0.00</b>	<b>51,499.82</b>		<b>1.41</b>	<b>0.94</b>		<b>51,819.81</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

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

## 9.0 Vegetation

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**Nevada County Housing Element - Proposed  
Nevada County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric
Apartments Low Rise	2681	Dwelling Unit

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>		<b>Utility Company</b>	Pacific Gas & Electric Company
<b>Climate Zone</b>	1		2.2		
		<b>Precipitation Freq (Days)</b>			
			80		

**1.3 User Entered Comments**

- Project Characteristics -
- Land Use - proposed acreage
- Construction Phase -
- Mobile Land Use Mitigation -
- Area Mitigation -
- Water Mitigation -
- Vehicle Trips - Trip rate based on traffic study

**2.0 Emissions Summary**

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## 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	1,501.81	27.85	2,317.69	1.99		0.00	305.05		0.00	305.03	34,532.04	31,628.88		69.14	2.33	68,336.35
Energy	1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44
Mobile	170.96	531.61	1,410.53	1.65	191.97	15.93	207.89	7.15	15.93	23.08		182,083.63		9.55		182,284.26
<b>Total</b>	<b>1,673.88</b>	<b>568.98</b>	<b>3,732.27</b>	<b>3.70</b>	<b>191.97</b>	<b>15.93</b>	<b>513.71</b>	<b>7.15</b>	<b>15.93</b>	<b>328.88</b>	<b>34,532.04</b>	<b>225,863.99</b>		<b>78.92</b>	<b>2.55</b>	<b>262,846.05</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	92.50	2.71	229.62	0.01		0.00	4.45		0.00	4.41	0.00	51,499.82		1.41	0.94	51,819.81
Energy	1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44
Mobile	170.86	531.28	1,409.69	1.65	191.82	15.91	207.73	7.15	15.91	23.06		181,948.07		9.55		182,148.56
<b>Total</b>	<b>264.47</b>	<b>543.51</b>	<b>1,643.36</b>	<b>1.72</b>	<b>191.82</b>	<b>15.91</b>	<b>212.95</b>	<b>7.15</b>	<b>15.91</b>	<b>28.24</b>	<b>0.00</b>	<b>245,599.37</b>		<b>11.19</b>	<b>1.16</b>	<b>246,193.81</b>

## 4.0 Mobile Detail

### 4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	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	170.86	531.28	1,409.69	1.65	191.82	15.91	207.73	7.15	15.91	23.06		181,948.07		9.55		182,148.56
Unmitigated	170.96	531.61	1,410.53	1.65	191.97	15.93	207.89	7.15	15.93	23.08		182,083.63		9.55		182,284.26
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	15,549.80	15,549.80	15,549.80	57,825,338	57,780,600
Total	15,549.80	15,549.80	15,549.80	57,825,338	57,780,600

#### 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 Low Rise	16.80	7.10	7.90	42.30	19.60	38.10

### 5.0 Energy Detail

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#### 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	lb/day										lb/day					
NaturalGas Mitigated	1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44
NaturalGas Unmitigated	1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

### 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 Low Rise	103288	1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44
Total		1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44

#### 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 Low Rise	103.288	1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44
Total		1.11	9.52	4.05	0.06		0.00	0.77		0.00	0.77		12,151.48		0.23	0.22	12,225.44

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	92.50	2.71	229.62	0.01		0.00	4.45		0.00	4.41	0.00	51,499.82		1.41	0.94	51,819.81
Unmitigated	1,501.81	27.85	2,317.69	1.99		0.00	305.05		0.00	305.03	34,532.04	31,628.88		69.14	2.33	68,336.35
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

### 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	22.96					0.00	0.00		0.00	0.00						0.00
Consumer Products	57.37					0.00	0.00		0.00	0.00						0.00
Hearth	1,413.99	25.14	2,088.33	1.97		0.00	303.83		0.00	303.81	34,532.04	31,225.76		68.71	2.33	67,924.21
Landscaping	7.48	2.71	229.37	0.01		0.00	1.21		0.00	1.21		403.11		0.43		412.14
Total	1,501.80	27.85	2,317.70	1.98		0.00	305.04		0.00	305.02	34,532.04	31,628.87		69.14	2.33	68,336.35

**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	22.96					0.00	0.00		0.00	0.00						0.00
Consumer Products	57.37					0.00	0.00		0.00	0.00						0.00
Hearth	4.68	0.00	0.26	0.00		0.00	3.24		0.00	3.20	0.00	51,096.71		0.98	0.94	51,407.67
Landscaping	7.48	2.71	229.37	0.01		0.00	1.21		0.00	1.21		403.11		0.43		412.14
<b>Total</b>	<b>92.49</b>	<b>2.71</b>	<b>229.63</b>	<b>0.01</b>		<b>0.00</b>	<b>4.45</b>		<b>0.00</b>	<b>4.41</b>	<b>0.00</b>	<b>51,499.82</b>		<b>1.41</b>	<b>0.94</b>	<b>51,819.81</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

## 9.0 Vegetation

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