

Appendix F  
LAX SPECIFIC PLAN AMENDMENT STUDY

**Greenhouse Gas Emissions**

July 2012

*Prepared for:*

Los Angeles World Airports  
One World Way  
Los Angeles, California 90045

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**Table 1**  
**LAX SPAS**  
**CalEEMod Usage Estimates**

Source	Baseline	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5	Alternative 6	Alternative 7	Alternative 8	Alternative 9
<u>Airfield/Terminal Components</u>										
Natural Gas (kBTU)	1,229,100	2,271,540	2,271,540	6,036,700	1,229,100	2,126,870	2,271,540	1,934,770	n/a	n/a
Electricity (kWh)	13,773,200	25,454,600	25,454,600	67,646,600	13,773,200	23,833,500	25,454,600	21,680,800	n/a	n/a
Indoor Water (Mgal)	53.5544	98.9757	98.9757	263.032	53.5544	92.6721	98.9757	84.3019	n/a	n/a
Outdoor Water (Mgal)	32.8237	60.6625	60.6625	161.213	32.8237	56.799	60.6625	51.6689	n/a	n/a
Waste Disposed (tons)	759.15	1,403.01	1,403.01	3,728.55	759.15	1,313.65	1,403	1,195.00	n/a	n/a
<u>Ground Access Components</u>										
Natural Gas (kBTU)	n/a	127,500	127,500	2,675,800	151,300	n/a	n/a	n/a	272,000	272,000
Electricity (kWh)	n/a	1,428,750	1,428,750	29,984,700	1,695,450	n/a	n/a	n/a	3,048,000	3,048,000
Indoor Water (Mgal)	n/a	5.55544	5.55544	116.59	6.59245	n/a	n/a	n/a	11.8516	12
Outdoor Water (Mgal)	n/a	3.40495	3.40495	71.4585	4.04054	n/a	n/a	n/a	7.26389	7
Waste Disposed (tons)	n/a	78.75	78.75	1,652.70	93.45	n/a	n/a	n/a	168	168
<u>Total</u>										
Natural Gas (kBTU)	1,229,100	2,399,040	2,399,040	8,712,500	1,380,400	2,126,870	2,271,540	1,934,770	272,000	272,000
Electricity (kWh)	13,773,200	26,883,350	26,883,350	97,631,300	15,468,650	23,833,500	25,454,600	21,680,800	3,048,000	3,048,000
Indoor Water (Mgal)	53.55	104.53	104.53	379.62	60.15	92.67	98.98	84.30	11.85	11.85
Outdoor Water (Mgal)	32.82	64.07	64.07	232.67	36.86	56.80	60.66	51.67	7.26	7.26
Waste Disposed (tons)	759.15	1,481.76	1,481.76	5,381.25	852.60	1,313.65	1,403.01	1,195.00	168.00	168.00

Notes:  
Alternative 2 equal to Alternative 1  
Alternative 4 airfield equal to Baseline.  
Alternative 6 airfield equal to Alternative 1.  
Alternative 9 ground access equal to Alternative 8.

**Table 2**  
**LAX SPAS**  
**Energy Emissions**  
**Baseline**

5/14/2012

<b>Unmitigated Operational Emissions - Electricity (MT/year)</b>						
<b>Category</b>	<b>Bio- CO2</b>	<b>NBio- CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>N2O</b>	<b>CO2e</b>
<b><u>Airfield/Terminal Components</u></b>						
Electricity	0.00	7,737.52	7,737.52	0.18	0.07	7,762.63
Natural Gas	0.00	65.59	65.59	0.00	0.00	65.99
Energy Subtotal	0.00	7,803.11	7,803.11	0.18	0.07	7,828.62
Waste	154.10	0.00	154.10	9.11	0.00	345.35
Water	0.00	597.22	597.22	1.65	0.05	646.05
Total	154.10	8,400.33	8,554.43	10.94	0.12	8,820.02
<b><u>Ground Access Components</u></b>						
Electricity	n/a	n/a	n/a	n/a	n/a	n/a
Natural Gas	n/a	n/a	n/a	n/a	n/a	n/a
Energy Subtotal	0.00	0.00	0.00	0.00	0.00	0.00
Waste	n/a	n/a	n/a	n/a	n/a	n/a
Water	n/a	n/a	n/a	n/a	n/a	n/a
Total	0.00	0.00	0.00	0.00	0.00	0.00
<b><u>Grand Total</u></b>						
Electricity	0.00	7,737.52	7,737.52	0.18	0.07	7,762.63
Natural Gas	0.00	65.59	65.59	0.00	0.00	65.99
Energy Subtotal	0.00	7,803.11	7,803.11	0.18	0.07	7,828.62
Waste	154.10	0.00	154.10	9.11	0.00	345.35
Water	0.00	597.22	597.22	1.65	0.05	646.05
Total	154.10	8,400.33	8,554.43	10.94	0.12	8,820.02

**Table 3**  
**LAX SPAS**  
**Energy Emissions**  
**Alternative 1 and 2**

5/14/2012

<b>Unmitigated Operational Emissions - Electricity (MT/year)</b>						
<b>Category</b>	<b>Bio- CO2</b>	<b>NBio- CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>N2O</b>	<b>CO2e</b>
<b><u>Airfield/Terminal Components</u></b>						
Electricity	0.00	14,299.97	14,299.97	0.33	0.13	14,346.38
Natural Gas	0.00	121.22	121.22	0.00	0.00	121.96
<b>Energy Subtotal</b>	<b>0.00</b>	<b>14,421.19</b>	<b>14,421.19</b>	<b>0.33</b>	<b>0.13</b>	<b>14,468.34</b>
Waste	284.80	0.00	284.80	16.83	0.00	638.25
Water	0.00	1,103.74	1,103.74	3.05	0.08	1,193.98
<b>Total</b>	<b>284.80</b>	<b>15,524.93</b>	<b>15,809.73</b>	<b>20.21</b>	<b>0.21</b>	<b>16,300.57</b>
<b><u>Ground Access Components</u></b>						
Electricity	0.00	802.65	802.65	0.02	0.01	805.25
Natural Gas	0.00	6.80	6.80	0.00	0.00	6.85
<b>Energy Subtotal</b>	<b>0.00</b>	<b>809.45</b>	<b>809.45</b>	<b>0.02</b>	<b>0.01</b>	<b>812.10</b>
Waste	15.99	0.00	15.99	0.94	0.00	35.82
Water	0.00	61.95	61.95	0.17	0.00	67.02
<b>Total</b>	<b>15.99</b>	<b>871.40</b>	<b>887.39</b>	<b>1.13</b>	<b>0.01</b>	<b>914.94</b>
<b><u>Grand Total</u></b>						
Electricity	0.00	15,102.62	15,102.62	0.35	0.14	15,151.63
Natural Gas	0.00	128.02	128.02	0.00	0.00	128.81
<b>Energy Subtotal</b>	<b>0.00</b>	<b>15,230.64</b>	<b>15,230.64</b>	<b>0.35</b>	<b>0.14</b>	<b>15,280.44</b>
Waste	300.79	0.00	300.79	17.77	0.00	674.07
Water	0.00	1,165.69	1,165.69	3.22	0.08	1,261.00
<b>Total</b>	<b>300.79</b>	<b>16,396.33</b>	<b>16,697.12</b>	<b>21.34</b>	<b>0.22</b>	<b>17,215.51</b>

Notes:

Airside/terminal and ground access components are identical for Alternatives 1 and 2.

**Table 4**  
**LAX SPAS**  
**Energy Emissions**  
**Alternative 3**

5/14/2012

<b>Unmitigated Operational Emissions - Electricity (MT/year)</b>						
<b>Category</b>	<b>Bio- CO2</b>	<b>NBio- CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>N2O</b>	<b>CO2e</b>
<b><u>Airfield/Terminal Components</u></b>						
Electricity	0.00	38,002.70	38,002.70	0.89	0.34	38,126.02
Natural Gas	0.00	322.14	322.14	0.01	0.01	324.10
<b>Energy Subtotal</b>	<b>0.00</b>	<b>38,324.84</b>	<b>38,324.84</b>	<b>0.90</b>	<b>0.35</b>	<b>38,450.12</b>
Waste	756.86	0.00	756.86	44.73	0.00	1,696.18
Water	0.00	2,933.22	2,933.22	8.10	0.23	3,173.06
<b>Total</b>	<b>756.86</b>	<b>41,258.06</b>	<b>42,014.92</b>	<b>53.73</b>	<b>0.58</b>	<b>43,319.36</b>
<b><u>Ground Access Components</u></b>						
Electricity	0.00	16,844.90	16,844.90	0.39	0.15	16,899.56
Natural Gas	0.00	142.79	142.79	0.00	0.00	143.66
<b>Energy Subtotal</b>	<b>0.00</b>	<b>16,987.69</b>	<b>16,987.69</b>	<b>0.39</b>	<b>0.15</b>	<b>17,043.22</b>
Waste	335.48	0.00	335.48	19.83	0.00	751.84
Water	0.00	1,300.16	1,300.16	3.59	0.10	1,406.47
<b>Total</b>	<b>335.48</b>	<b>18,287.85</b>	<b>18,623.33</b>	<b>23.81</b>	<b>0.25</b>	<b>19,201.53</b>
<b><u>Grand Total</u></b>						
Electricity	0.00	54,847.60	54,847.60	1.28	0.49	55,025.58
Natural Gas	0.00	464.93	464.93	0.01	0.01	467.76
<b>Energy Subtotal</b>	<b>0.00</b>	<b>55,312.53</b>	<b>55,312.53</b>	<b>1.29</b>	<b>0.50</b>	<b>55,493.34</b>
Waste	1,092.34	0.00	1,092.34	64.56	0.00	2,448.02
Water	0.00	4,233.38	4,233.38	11.69	0.33	4,579.53
<b>Total</b>	<b>1,092.34</b>	<b>59,545.91</b>	<b>60,638.25</b>	<b>77.54</b>	<b>0.83</b>	<b>62,520.89</b>

**Table 5**  
**LAX SPAS**  
**Energy Emissions**  
**Alternative 4**

5/14/2012

<b>Unmitigated Operational Emissions - Electricity (MT/year)</b>						
<b>Category</b>	<b>Bio- CO2</b>	<b>NBio- CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>N2O</b>	<b>CO2e</b>
<b><u>Airfield/Terminal Components</u></b>						
Electricity	0.00	7,737.52	7,737.52	0.18	0.07	7,762.63
Natural Gas	0.00	65.59	65.59	0.00	0.00	65.99
<b>Energy Subtotal</b>	<b>0.00</b>	<b>7,803.11</b>	<b>7,803.11</b>	<b>0.18</b>	<b>0.07</b>	<b>7,828.62</b>
Waste	154.10	0.00	154.10	9.11	0.00	345.35
Water	0.00	597.22	597.22	1.65	0.05	646.05
<b>Total</b>	<b>154.10</b>	<b>8,400.33</b>	<b>8,554.43</b>	<b>10.94</b>	<b>0.12</b>	<b>8,820.02</b>
<b><u>Ground Access Components</u></b>						
Electricity	0.00	952.48	952.48	0.02	0.01	955.57
Natural Gas	0.00	8.07	8.07	0.00	0.00	8.12
<b>Energy Subtotal</b>	<b>0.00</b>	<b>960.55</b>	<b>960.55</b>	<b>0.02</b>	<b>0.01</b>	<b>963.69</b>
Waste	18.97	0.00	18.97	1.12	0.00	42.51
Water	0.00	73.52	73.52	0.20	0.01	79.53
<b>Total</b>	<b>18.97</b>	<b>1,034.07</b>	<b>1,053.04</b>	<b>1.34</b>	<b>0.02</b>	<b>1,085.73</b>
<b><u>Grand Total</u></b>						
Electricity	0.00	8,690.00	8,690.00	0.20	0.08	8,718.20
Natural Gas	0.00	73.66	73.66	0.00	0.00	74.11
<b>Energy Subtotal</b>	<b>0.00</b>	<b>8,763.66</b>	<b>8,763.66</b>	<b>0.20</b>	<b>0.08</b>	<b>8,792.31</b>
Waste	173.07	0.00	173.07	10.23	0.00	387.86
Water	0.00	670.74	670.74	1.85	0.06	725.58
<b>Total</b>	<b>173.07</b>	<b>9,434.40</b>	<b>9,607.47</b>	<b>12.28</b>	<b>0.14</b>	<b>9,905.75</b>

Note:

Airfield/Terminal components the same as Baseline.

**Table 6  
LAX SPAS  
Energy Emissions  
Alternative 5**

**5/14/2012**

<b>Unmitigated Operational Emissions - Electricity (MT/year)</b>						
<b>Category</b>	<b>Bio- CO2</b>	<b>NBio- CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>N2O</b>	<b>CO2e</b>
<b><u>Airfield/Terminal Components</u></b>						
Electricity	0.00	13,389.24	13,389.24	0.31	0.12	13,432.68
Natural Gas	0.00	113.50	113.50	0.00	0.00	114.19
<b>Energy Subtotal</b>	<b>0.00</b>	<b>13,502.74</b>	<b>13,502.74</b>	<b>0.31</b>	<b>0.12</b>	<b>13,546.87</b>
Waste	266.66	0.00	266.66	15.76	0.00	597.60
Water	0.00	1,033.44	1,033.44	2.85	0.08	1,117.94
<b>Total</b>	<b>266.66</b>	<b>14,536.18</b>	<b>14,802.84</b>	<b>18.92</b>	<b>0.20</b>	<b>15,262.41</b>
<b><u>Ground Access Components</u></b>						
Electricity	n/a	n/a	n/a	n/a	n/a	n/a
Natural Gas	n/a	n/a	n/a	n/a	n/a	n/a
<b>Energy Subtotal</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>
Waste	n/a	n/a	n/a	n/a	n/a	n/a
Water	n/a	n/a	n/a	n/a	n/a	n/a
<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><u>Grand Total</u></b>						
Electricity	0.00	13,389.24	13,389.24	0.31	0.12	13,432.68
Natural Gas	0.00	113.50	113.50	0.00	0.00	114.19
<b>Energy Subtotal</b>	<b>0.00</b>	<b>13,502.74</b>	<b>13,502.74</b>	<b>0.31</b>	<b>0.12</b>	<b>13,546.87</b>
Waste	266.66	0.00	266.66	15.76	0.00	597.60
Water	0.00	1,033.44	1,033.44	2.85	0.08	1,117.94
<b>Total</b>	<b>266.66</b>	<b>14,536.18</b>	<b>14,802.84</b>	<b>18.92</b>	<b>0.20</b>	<b>15,262.41</b>



**Table 7**  
**LAX SPAS**  
**Energy Emissions**  
**Alternative 6**

5/14/2012

<b>Unmitigated Operational Emissions - Electricity (MT/year)</b>						
<b>Category</b>	<b>Bio- CO2</b>	<b>NBio- CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>N2O</b>	<b>CO2e</b>
<b><u>Airfield/Terminal Components</u></b>						
Electricity	0.00	14,299.97	14,299.97	0.33	0.13	14,346.38
Natural Gas	0.00	121.22	121.22	0.00	0.00	121.96
<b>Energy Subtotal</b>	<b>0.00</b>	<b>14,421.19</b>	<b>14,421.19</b>	<b>0.33</b>	<b>0.13</b>	<b>14,468.34</b>
Waste	284.80	0.00	284.80	16.83	0.00	638.25
Water	0.00	1,103.74	1,103.74	3.05	0.08	1,193.98
<b>Total</b>	<b>284.80</b>	<b>15,524.93</b>	<b>15,809.73</b>	<b>20.21</b>	<b>0.21</b>	<b>16,300.57</b>
<b><u>Ground Access Components</u></b>						
Electricity	n/a	n/a	n/a	n/a	n/a	n/a
Natural Gas	n/a	n/a	n/a	n/a	n/a	n/a
<b>Energy Subtotal</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>
Waste	n/a	n/a	n/a	n/a	n/a	n/a
Water	n/a	n/a	n/a	n/a	n/a	n/a
<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><u>Grand Total</u></b>						
Electricity	0.00	14,299.97	14,299.97	0.33	0.13	14,346.38
Natural Gas	0.00	121.22	121.22	0.00	0.00	121.96
<b>Energy Subtotal</b>	<b>0.00</b>	<b>14,421.19</b>	<b>14,421.19</b>	<b>0.33</b>	<b>0.13</b>	<b>14,468.34</b>
Waste	284.80	0.00	284.80	16.83	0.00	638.25
Water	0.00	1,103.74	1,103.74	3.05	0.08	1,193.98
<b>Total</b>	<b>284.80</b>	<b>15,524.93</b>	<b>15,809.73</b>	<b>20.21</b>	<b>0.21</b>	<b>16,300.57</b>

Note:

Airfield/Terminal components the same as Alternative 1/2.

**Table 8**  
**LAX SPAS**  
**Energy Emissions**  
**Alternative 7**

5/14/2012

<b>Unmitigated Operational Emissions - Electricity (MT/year)</b>						
<b>Category</b>	<b>Bio- CO2</b>	<b>NBio- CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>N2O</b>	<b>CO2e</b>
<b><u>Airfield/Terminal Components</u></b>						
Electricity	0.00	12,179.91	12,179.91	0.29	0.11	12,219.44
Natural Gas	0.00	103.25	103.25	0.00	0.00	103.88
<b>Energy Subtotal</b>	<b>0.00</b>	<b>12,283.16</b>	<b>12,283.16</b>	<b>0.29</b>	<b>0.11</b>	<b>12,323.32</b>
Waste	242.57	0.00	242.57	14.34	0.00	543.62
Water	0.00	940.10	940.10	2.60	0.07	1,016.97
<b>Total</b>	<b>242.57</b>	<b>13,223.26</b>	<b>13,465.83</b>	<b>17.23</b>	<b>0.18</b>	<b>13,883.91</b>
<b><u>Ground Access Components</u></b>						
Electricity	n/a	n/a	n/a	n/a	n/a	n/a
Natural Gas	n/a	n/a	n/a	n/a	n/a	n/a
<b>Energy Subtotal</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>
Waste	n/a	n/a	n/a	n/a	n/a	n/a
Water	n/a	n/a	n/a	n/a	n/a	n/a
<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><u>Grand Total</u></b>						
Electricity	0.00	12,179.91	12,179.91	0.29	0.11	12,219.44
Natural Gas	0.00	103.25	103.25	0.00	0.00	103.88
<b>Energy Subtotal</b>	<b>0.00</b>	<b>12,283.16</b>	<b>12,283.16</b>	<b>0.29</b>	<b>0.11</b>	<b>12,323.32</b>
Waste	242.57	0.00	242.57	14.34	0.00	543.62
Water	0.00	940.10	940.10	2.60	0.07	1,016.97
<b>Total</b>	<b>242.57</b>	<b>13,223.26</b>	<b>13,465.83</b>	<b>17.23</b>	<b>0.18</b>	<b>13,883.91</b>

**Table 9  
LAX SPAS  
Energy Emissions  
Alternatives 8 and 9**

5/14/2012

<b>Unmitigated Operational Emissions - Electricity (MT/year)</b>						
<b>Category</b>	<b>Bio- CO2</b>	<b>NBio- CO2</b>	<b>Total CO2</b>	<b>CH4</b>	<b>N2O</b>	<b>CO2e</b>
<b><u>Airfield/Terminal Components</u></b>						
Electricity	n/a	n/a	n/a	n/a	n/a	n/a
Natural Gas	n/a	n/a	n/a	n/a	n/a	n/a
<b>Energy Subtotal</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>
Waste	n/a	n/a	n/a	n/a	n/a	n/a
Water	n/a	n/a	n/a	n/a	n/a	n/a
<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><u>Ground Access Components</u></b>						
Electricity	0.00	1,712.32	1,712.32	0.04	0.02	1,717.87
Natural Gas	0.00	14.51	14.51	0.00	0.00	14.60
<b>Energy Subtotal</b>	<b>0.00</b>	<b>1,726.83</b>	<b>1,726.83</b>	<b>0.04</b>	<b>0.02</b>	<b>1,732.47</b>
Waste	34.10	0.00	34.10	2.02	0.00	76.43
Water	0.00	132.16	132.16	0.36	0.01	142.97
<b>Total</b>	<b>34.10</b>	<b>1,858.99</b>	<b>1,893.09</b>	<b>2.42</b>	<b>0.03</b>	<b>1,951.87</b>
<b><u>Grand Total</u></b>						
Electricity	0.00	1,712.32	1,712.32	0.04	0.02	1,717.87
Natural Gas	0.00	14.51	14.51	0.00	0.00	14.60
<b>Energy Subtotal</b>	<b>0.00</b>	<b>1,726.83</b>	<b>1,726.83</b>	<b>0.04</b>	<b>0.02</b>	<b>1,732.47</b>
Waste	34.10	0.00	34.10	2.02	0.00	76.43
Water	0.00	132.16	132.16	0.36	0.01	142.97
<b>Total</b>	<b>34.10</b>	<b>1,858.99</b>	<b>1,893.09</b>	<b>2.42</b>	<b>0.03</b>	<b>1,951.87</b>

Notes:

Airside/terminal and ground access components are identical for Alternatives 8 and 9.

**Table 10**  
**LAX SPAS**  
**Baseline**

**6/8/2012**  
**Mixing Height = 1806 ft**

Scenario	Total Emissions, metric tons per year			
	CO2	CH4	N2O	CO2e
Aircraft	625,910	100	21	634,424
Ground Support Equipment	59,778	9	2	60,551
Auxiliary Power Units	N/A	N/A	N/A	0
Parking Facilities	104,740	61	9	108,784
On-Airport Roadways	47,049	27	4	48,865
On-Airport Stationary	66	0	0	66
<b>On-Airport Subtotal</b>	<b>837,543</b>	<b>198</b>	<b>35</b>	<b>852,690</b>
Building Electricity	7,738	0	0	7,763
Solid Waste Disposal	154	9	0	345
Indoor/Outdoor Water Usage	597	2	0	646
Off-Airport Roadways	1,315,179	885	229	1,404,778
<b>Off-Airport Subtotal</b>	<b>1,323,668</b>	<b>896</b>	<b>229</b>	<b>1,413,532</b>
<b>Grand Total</b>	<b>2,161,211</b>	<b>1,093</b>	<b>265</b>	<b>2,266,222</b>
GWP	1	21	310	

1 short ton = 0.9072 metric tons

Note:

CH4 and N2O emissions from aircraft, parking facilities, and roadways estimated from results of LAWA GHG Emissions Inventory (CDM 2008).

**Table 11  
LAX SPAS  
Alternative 1**

**6/8/2012  
Mixing Height = 1806 ft**

Scenario	Total Emissions, metric tons per year				CO2e	Increment MTCO2e/yr
	CO2	CH4	N2O			
Aircraft	943,602	151	31		956,437	322,013
Ground Support Equipment	78,131	5	2		78,838	18,287
Auxiliary Power Units	N/A	N/A	N/A		0	0
Parking Facilities	104,145	61	9		108,166	-618
On-Airport Roadways	43,393	25	4		45,068	-3,797
On-Airport Stationary	128	0	0		129	63
<b>On-Airport Subtotal</b>	<b>1,169,399</b>	<b>241</b>	<b>46</b>		<b>1,188,637</b>	<b>335,947</b>
Building Electricity	15,103	0	0		15,152	7,389
Solid Waste Disposal	301	18	0		674	329
Indoor/Outdoor Water Usage	1,166	3	0		1,261	615
Off-Airport Roadways	1,435,650	966	250		1,533,455	128,677
<b>Off-Airport Subtotal</b>	<b>1,452,219</b>	<b>987</b>	<b>250</b>		<b>1,550,542</b>	<b>137,010</b>
<b>Grand Total</b>	<b>2,621,618</b>	<b>1,228</b>	<b>296</b>		<b>2,739,179</b>	<b>472,958</b>
GWP	1	21	310			

1 short ton = 0.9072 metric tons

Note:

CH4 and N2O emissions from aircraft, parking facilities, and roadways estimated from results of LAWA GHG Emissions Inventory (CDM 2008).

**Table 12**  
**LAX SPAS**  
**Alternative 2**

**6/8/2012**  
**Mixing Height = 1806 ft**

Scenario	Total Emissions, metric tons per year				CO2e	Increment MTCO2e/yr
	CO2	CH4	N2O			
Aircraft	931,449	149	31		944,119	309,695
Ground Support Equipment	78,131	5	2		78,838	18,287
Auxiliary Power Units	N/A	N/A	N/A		0	0
Parking Facilities	104,145	61	9		108,166	-618
On-Airport Roadways	43,393	25	4		45,068	-3,797
On-Airport Stationary	128	0	0		129	63
<b>On-Airport Subtotal</b>	<b>1,157,247</b>	<b>239</b>	<b>45</b>		<b>1,176,320</b>	<b>323,630</b>
Building Electricity	15,103	0	0		15,152	7,389
Solid Waste Disposal	301	18	0		674	329
Indoor/Outdoor Water Usage	1,166	3	0		1,261	615
Off-Airport Roadways	1,435,650	966	250		1,533,455	128,677
<b>Off-Airport Subtotal</b>	<b>1,452,219</b>	<b>987</b>	<b>250</b>		<b>1,550,542</b>	<b>137,010</b>
<b>Grand Total</b>	<b>2,609,466</b>	<b>1,226</b>	<b>296</b>		<b>2,726,862</b>	<b>460,640</b>
GWP	1	21	310			

1 short ton = 0.9072 metric tons

Note:

CH4 and N2O emissions from aircraft, parking facilities, and roadways estimated from results of LAWA GHG Emissions Inventory (CDM 2008).

**Table 13  
LAX SPAS  
Alternative 3**

**6/8/2012  
Mixing Height = 1806 ft**

Scenario	Total Emissions, metric tons per year				CO2e	Increment MTCO2e/yr
	CO2	CH4	N2O			
Aircraft	983,468	157	33		996,846	362,422
Ground Support Equipment	78,131	5	2		78,838	18,287
Auxiliary Power Units	N/A	N/A	N/A		0	0
Parking Facilities	97,493	57	8		101,256	-7,528
On-Airport Roadways	46,236	27	4		48,021	-845
On-Airport Stationary	465	0	0		468	402
<b>On-Airport Subtotal</b>	<b>1,205,793</b>	<b>245</b>	<b>47</b>		<b>1,225,428</b>	<b>372,738</b>
Building Electricity	54,848	1	0		55,026	47,263
Solid Waste Disposal	1,092	65	0		2,448	2,103
Indoor/Outdoor Water Usage	4,233	12	0		4,580	3,933
Off-Airport Roadways	1,348,743	907	235		1,440,628	35,851
<b>Off-Airport Subtotal</b>	<b>1,408,917</b>	<b>985</b>	<b>236</b>		<b>1,502,682</b>	<b>89,150</b>
<b>Grand Total</b>	<b>2,614,710</b>	<b>1,230</b>	<b>282</b>		<b>2,728,110</b>	<b>461,888</b>
GWP	1	21	310			

1 short ton = 0.9072 metric tons

Note:

CH4 and N2O emissions from aircraft, parking facilities, and roadways estimated from results of LAWA GHG Emissions Inventory (CDM 2008).

**Table 14**  
**LAX SPAS**  
**Alternative 4**

**6/8/2012**  
**Mixing Height = 1806 ft**

Scenario	Total Emissions, metric tons per year				CO2e	Increment MTCO2e/yr
	CO2	CH4	N2O			
Aircraft	954,094	152	32		967,072	332,648
Ground Support Equipment	78,131	5	2		78,838	18,287
Auxiliary Power Units	N/A	N/A	N/A		0	0
Parking Facilities	101,594	59	9		105,516	-3,268
On-Airport Roadways	42,858	25	4		44,512	-4,353
On-Airport Stationary	74	0	0		74	8
<b>On-Airport Subtotal</b>	<b>1,176,750</b>	<b>241</b>	<b>46</b>		<b>1,196,012</b>	<b>343,322</b>
Building Electricity	8,690	0	0		8,718	956
Solid Waste Disposal	173	10	0		388	43
Indoor/Outdoor Water Usage	671	2	0		726	80
Off-Airport Roadways	1,409,223	948	245		1,505,228	100,450
<b>Off-Airport Subtotal</b>	<b>1,418,757</b>	<b>960</b>	<b>246</b>		<b>1,515,060</b>	<b>101,528</b>
<b>Grand Total</b>	<b>2,595,507</b>	<b>1,201</b>	<b>291</b>		<b>2,711,072</b>	<b>444,850</b>
GWP	1	21	310			

1 short ton = 0.9072 metric tons

Note:

CH4 and N2O emissions from aircraft, parking facilities, and roadways estimated from results of LAWA GHG Emissions Inventory (CDM 2008).



**Table 15  
LAX SPAS  
Alternative 5**

**6/8/2012  
Mixing Height = 1806 ft**

<b>Scenario</b>	<b>Total Emissions, metric tons per year</b>				<b>CO2e</b>	<b>Increment MTCO2e/yr</b>
	<b>CO2</b>	<b>CH4</b>	<b>N2O</b>			
Aircraft	944,152	151	31		956,994	322,570
Ground Support Equipment	78,131	5	2		78,838	18,287
Auxiliary Power Units	N/A	N/A	N/A		0	0
Parking Facilities	104,145	61	9		108,166	-618
On-Airport Roadways	43,393	25	4		45,068	-3,797
On-Airport Stationary	114	0	0		114	48
<b>On-Airport Subtotal</b>	<b>1,169,934</b>	<b>241</b>	<b>46</b>		<b>1,189,180</b>	<b>336,490</b>
Building Electricity	13,389	0	0		13,433	5,670
Solid Waste Disposal	267	16	0		598	252
Indoor/Outdoor Water Usage	1,033	3	0		1,118	472
Off-Airport Roadways	N/A	N/A	N/A		N/A	N/A
<b>Off-Airport Subtotal</b>	<b>14,689</b>	<b>19</b>	<b>0</b>		<b>15,148</b>	<b>6,394</b>
<b>Grand Total</b>	<b>1,184,624</b>	<b>260</b>	<b>46</b>		<b>1,204,328</b>	<b>342,884</b>
GWP	1	21	310			

1 short ton = 0.9072 metric tons

Note:

CH4 and N2O emissions from aircraft, parking facilities, and roadways estimated from results of LAWA GHG Emissions Inventory (CDM 2008).

**Table 16**  
**LAX SPAS**  
**Alternative 6**

**6/8/2012**  
**Mixing Height = 1806 ft**

Scenario	Total Emissions, metric tons per year				CO2e	Increment MTCO2e/yr
	CO2	CH4	N2O			
Aircraft	933,469	149	31		946,166	311,742
Ground Support Equipment	78,131	5	2		78,838	18,287
Auxiliary Power Units	N/A	N/A	N/A		0	0
Parking Facilities	104,145	61	9		108,166	-618
On-Airport Roadways	43,393	25	4		45,068	-3,797
On-Airport Stationary	121	0	0		122	56
<b>On-Airport Subtotal</b>	<b>1,159,259</b>	<b>240</b>	<b>45</b>		<b>1,178,360</b>	<b>325,670</b>
Building Electricity	14,300	0	0		14,346	6,584
Solid Waste Disposal	285	17	0		638	293
Indoor/Outdoor Water Usage	1,104	3	0		1,194	548
Off-Airport Roadways	N/A	N/A	N/A		N/A	N/A
<b>Off-Airport Subtotal</b>	<b>15,689</b>	<b>20</b>	<b>0</b>		<b>16,179</b>	<b>7,425</b>
<b>Grand Total</b>	<b>1,174,948</b>	<b>260</b>	<b>46</b>		<b>1,194,538</b>	<b>333,094</b>
GWP	1	21	310			

1 short ton = 0.9072 metric tons

Note:

CH4 and N2O emissions from aircraft, parking facilities, and roadways estimated from results of LAWA GHG Emissions Inventory (CDM 2008).

**Table 17**  
**LAX SPAS**  
**Alternative 7**

**6/8/2012**  
**Mixing Height = 1806 ft**

Scenario	Total Emissions, metric tons per year				CO2e	Increment MTCO2e/yr
	CO2	CH4	N2O			
Aircraft	944,906	151	31		957,759	323,335
Ground Support Equipment	78,131	5	2		78,838	18,287
Auxiliary Power Units	N/A	N/A	N/A		0	0
Parking Facilities	104,145	61	9		108,166	-618
On-Airport Roadways	43,393	25	4		45,068	-3,797
On-Airport Stationary	103	0	0		104	38
<b>On-Airport Subtotal</b>	<b>1,170,678</b>	<b>242</b>	<b>46</b>		<b>1,189,934</b>	<b>337,244</b>
Building Electricity	12,180	0	0		12,219	4,457
Solid Waste Disposal	243	14	0		544	198
Indoor/Outdoor Water Usage	940	3	0		1,017	371
Off-Airport Roadways	N/A	N/A	N/A		N/A	N/A
<b>Off-Airport Subtotal</b>	<b>13,363</b>	<b>17</b>	<b>0</b>		<b>13,780</b>	<b>5,026</b>
<b>Grand Total</b>	<b>1,184,041</b>	<b>259</b>	<b>46</b>		<b>1,203,714</b>	<b>342,270</b>
GWP	1	21	310			

1 short ton = 0.9072 metric tons

Note:

CH4 and N2O emissions from aircraft, parking facilities, and roadways estimated from results of LAWA GHG Emissions Inventory (CDM 2008).

**Table 18  
LAX SPAS  
Alternative 8**

**6/8/2012  
Mixing Height = 1806 ft**

Scenario	Total Emissions, metric tons per year				CO2e	Increment MTCO2e/yr
	CO2	CH4	N2O			
Aircraft	N/A	N/A	N/A	N/A	N/A	N/A
Ground Support Equipment	N/A	N/A	N/A	N/A	N/A	N/A
Auxiliary Power Units	N/A	N/A	N/A	N/A	N/A	N/A
Parking Facilities	95,126	56	8	98,799	-9,985	
On-Airport Roadways	43,075	25	4	44,737	-4,128	
On-Airport Stationary	15	0	0	15	-51	
<b>On-Airport Subtotal</b>	<b>138,215</b>	<b>81</b>	<b>12</b>	<b>143,551</b>	<b>-14,165</b>	
Building Electricity	1,712	0	0	1,718	-6,045	
Solid Waste Disposal	34	2	0	76	-269	
Indoor/Outdoor Water Usage	132	0	0	143	-503	
Off-Airport Roadways	1,388,729	934	242	1,483,338	78,560	
<b>Off-Airport Subtotal</b>	<b>1,390,607</b>	<b>937</b>	<b>242</b>	<b>1,485,275</b>	<b>71,743</b>	
<b>Grand Total</b>	<b>1,528,823</b>	<b>1,017</b>	<b>254</b>	<b>1,628,826</b>	<b>57,579</b>	
GWP	1	21	310			

1 short ton = 0.9072 metric tons

Note:

CH4 and N2O emissions from aircraft, parking facilities, and roadways estimated from results of LAWA GHG Emissions Inventory (CDM 2008).

**Table 19**  
**LAX SPAS**  
**Alternative 7**

**6/8/2012**  
**Mixing Height = 1806 ft**

Scenario	Total Emissions, metric tons per year				CO2e	Increment MTCO2e/yr
	CO2	CH4	N2O			
Aircraft	N/A	N/A	N/A	N/A	N/A	N/A
Ground Support Equipment	N/A	N/A	N/A	N/A	N/A	N/A
Auxiliary Power Units	N/A	N/A	N/A	N/A	N/A	N/A
Parking Facilities	95,126	56	8	98,799	-9,985	
On-Airport Roadways	41,674	24	4	43,283	-5,582	
On-Airport Stationary	15	0	0	15	-51	
<b>On-Airport Subtotal</b>	<b>136,815</b>	<b>80</b>	<b>12</b>	<b>142,096</b>	<b>-15,619</b>	
Building Electricity	1,712	0	0	1,718	-6,045	
Solid Waste Disposal	34	2	0	76	-269	
Indoor/Outdoor Water Usage	132	0	0	143	-503	
Off-Airport Roadways	1,388,729	934	242	1,483,338	78,560	
<b>Off-Airport Subtotal</b>	<b>1,390,607</b>	<b>937</b>	<b>242</b>	<b>1,485,275</b>	<b>71,743</b>	
<b>Grand Total</b>	<b>1,527,422</b>	<b>1,016</b>	<b>254</b>	<b>1,627,371</b>	<b>56,124</b>	
GWP	1	21	310			

1 short ton = 0.9072 metric tons

Note:

CH4 and N2O emissions from aircraft, parking facilities, and roadways estimated from results of LAWA GHG Emissions Inventory (CDM 2008).

**Table 20**  
**On-Airport Roadway Emissions - Baseline**

Description	Volume			Road Type	Speed (mph)	Distance (mi)	Emission Factor CO2 (g/m)	Emissions CO2 (tpy)
	Cars	Trucks	Total					
Aviation Boulevard and 104th Street (west leg)	941,444	373,853	1,315,298	Cargo	25	0.267612	898.575402	348.65
Aviation Boulevard and 111th Street (west leg)	1,294,527	514,065	1,808,592	Cargo	25	0.233206	898.575402	417.77
Aviation Boulevard and 111th Street (west leg)	1,294,527	514,065	1,808,592	Cargo	25	0.035112	898.575402	62.90
Century Boulevard and Airport Boulevard (south leg)	581,216	230,804	812,020	Cargo	25	0.155198	898.575402	124.83
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.511899	0	-
Century Boulevard and Avion Drive (south leg)	1,003,525	398,506	1,402,031	Cargo	25	0.201293	898.575402	279.54
Century Boulevard and Airport Boulevard (south leg)	581,216	230,804	812,020	Cargo	25	0.225164	898.575402	181.10
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.533015	0	-
Imperial Highway and Hughes Way (north leg)	1,028,393	408,381	1,436,774	Cargo	25	0.496422	898.575402	706.48
Imperial Highway and Hughes Way (north leg)	1,028,393	408,381	1,436,774	Cargo	25	0.016878	898.575402	24.02
Imperial Highway and Imperial Terminal (north leg)	543,817	215,953	759,770	Cargo	25	0.23636	898.575402	177.88
Century Boulevard and Postal Road/International Road (south leg)	989,820	393,064	1,382,884	Cargo	25	0.14874	898.575402	203.74
Century Boulevard and Postal Road/International Road (south leg)	989,820	393,064	1,382,884	Cargo	25	0.051972	898.575402	71.19
Century Boulevard and Avion Drive (south leg)	1,003,525	398,506	1,402,031	Cargo	25	0.371507	898.575402	515.92
Century Boulevard and Avion Drive (south leg)	1,003,525	398,506	1,402,031	Cargo	25	0.073319	898.575402	101.82
Aviation Boulevard and 111th Street (west leg)	1,294,527	514,065	1,808,592	Cargo	25	0.277863	898.575402	497.77
Imperial Highway and California Street (north leg)	623,215	247,483	870,698	Cargo	25	0.19376	898.575402	167.11
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.503228	0	-
See "Airfield Traffic"	6,716,725	1,129,916	7,846,641	Non-Cargo	10	0.088629	1070.429216	820.59
See "Airfield Traffic"	4,884,891	821,757	5,706,648	Non-Cargo	10	0.162034	1070.429216	1,091.07
See "Airfield Traffic"	4,242,381	713,672	4,956,053	Non-Cargo	10	0.264274	1070.429216	1,545.45
See "Airfield Traffic"	0	0	0	Non-Cargo	10	0.261909	0	-
See "Airfield Traffic"	8,853,864	1,489,435	10,343,299	Non-Cargo	10	0.198233	1070.429216	2,419.35
See "Airfield Traffic"	1,649,562	277,496	1,927,058	Non-Cargo	10	0.143971	1070.429216	327.37
See "Airfield Traffic"	2,128,026	357,986	2,486,012	Non-Cargo	10	0.123173	1070.429216	361.31
See "Airfield Traffic"	2,683,955	451,507	3,135,462	Non-Cargo	10	0.220601	1070.429216	816.16
See "Airfield Traffic"	9,660,418	1,625,117	11,285,535	Non-Cargo	10	0.11839	1070.429216	1,576.53
See "Airfield Traffic"	12,941,314	2,177,044	15,118,358	Non-Cargo	10	0.12198	1070.429216	2,175.99
See "Airfield Traffic"	12,458,293	2,095,788	14,554,081	Non-Cargo	10	0.23309	1070.429216	4,002.88
See "Airfield Traffic"	10,631,017	1,788,395	12,419,412	Non-Cargo	10	0.148023	1070.429216	2,169.18
See "Airfield Traffic"	9,350,555	1,572,991	10,923,546	Non-Cargo	10	0.13649	1070.429216	1,759.26
See "Airfield Traffic"	8,698,933	1,463,372	10,162,305	Non-Cargo	10	0.120701	1070.429216	1,447.33
See "Airfield Traffic"	8,548,559	1,438,075	9,986,634	Non-Cargo	10	0.116998	1070.429216	1,378.68
See "Airfield Traffic"	8,730,830	1,468,738	10,199,568	Non-Cargo	10	0.264356	1070.429216	3,181.53
See "Airfield Traffic"	2,159,923	363,352	2,523,275	Non-Cargo	10	0.153091	1070.429216	455.80
See "Airfield Traffic"	8,434,638	1,418,911	9,853,549	Non-Cargo	10	0.246549	1070.429216	2,866.56
Aviation Boulevard and 111th Street (west leg)	1,294,527	514,065	1,808,592	Cargo	25	0.353735	898.575402	633.69
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.580918	0	-
See "Airfield Traffic"	0	0	0	Non-Cargo	35	0.366969	0	-
See "Airfield Traffic"	8,001,742	1,346,088	9,347,830	Non-Cargo	15	0.109319	828.298599	933.04
See "Airfield Traffic"	1,485,517	249,900	1,735,417	Non-Cargo	15	0.169561	828.298599	268.67
See "Airfield Traffic"	4,351,745	732,069	5,083,814	Non-Cargo	15	0.166669	828.298599	773.64
See "Airfield Traffic"	3,595,316	604,819	4,200,135	Non-Cargo	15	0.2108	828.298599	808.40
See "Airfield Traffic"	7,473,153	1,257,166	8,730,319	Non-Cargo	15	0.131905	828.298599	1,051.44
See "Airfield Traffic"	11,779,330	1,981,570	13,760,900	Non-Cargo	15	0.123916	828.298599	1,556.92
See "Airfield Traffic"	10,918,095	1,836,689	12,754,784	Non-Cargo	15	0.230565	828.298599	2,685.10
See "Airfield Traffic"	7,687,323	1,293,194	8,980,517	Non-Cargo	15	0.163195	828.298599	1,338.14
See "Airfield Traffic"	7,327,336	1,232,636	8,559,972	Non-Cargo	15	0.15169	828.298599	1,185.56
See "Airfield Traffic"	10,699,368	1,799,894	12,499,262	Non-Cargo	15	0.235378	828.298599	2,686.23
See "Airfield Traffic"	11,341,878	1,907,979	13,249,857	Non-Cargo	15	0.211702	828.298599	2,561.12
See "Airfield Traffic"	3,230,772	543,494	3,774,266	Non-Cargo	15	0.182527	828.298599	629.00
See "Airfield Traffic"	6,990,133	1,175,910	8,166,043	Non-Cargo	15	0.329887	828.298599	2,459.63
Imperial Highway and unsignalized driveway e/o Hughes Way (north leg)	709,876	281,896	991,772	Cargo	25	0.015968	898.575402	15.69
See "Airfield Traffic"	0	0	0	Non-Cargo	25	1.402839	0	-
<b>Total</b>								<b>51,862.03</b>

**Table 21**  
**On-Airport Roadway Emissions - Alternatives 1 and 2**

Description	Volume			Road Type	Speed (mph)	Distance (mi)	Emission Factor CO2 (g/m)	Emissions CO2 (tpy)
	Cars	Trucks	Total					
Aviation Boulevard and 104th Street (west leg)	1,611,922	512,094	2,124,017	Cargo	25	0.267612	659.977919	413.52
Aviation Boulevard and 111th Street (west leg)	2,254,076	716,101	2,970,177	Cargo	25	0.233206	659.977919	503.92
Aviation Boulevard and 111th Street (west leg)	2,254,076	716,101	2,970,177	Cargo	25	0.035112	659.977919	75.87
Century Boulevard and Airport Boulevard (south leg)	1,029,286	326,995	1,356,281	Cargo	25	0.155198	659.977919	153.13
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.511899		-
Century Boulevard and Avion Drive (south leg)	1,680,354	533,835	2,214,189	Cargo	25	0.201293	659.977919	324.25
Busway (ITF - Manchester Square)	0	471,544	471,544	Non-Cargo	40	0.741296	861.803917	332.07
Busway (World Way South - ITF)	0	471,544	471,544	Non-Cargo	40	1.238539	861.803917	554.81
Busway (World Way North - ITF)	0	471,544	471,544	Non-Cargo	40	0.578829	861.803917	259.29
Imperial Highway and California Street (north leg)	1,103,313	350,513	1,453,827	Cargo	25	0.225164	659.977919	238.15
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.533015		-
Imperial Highway and Douglas Street (north leg)	1,590,959	505,434	2,096,393	Cargo	25	0.496422	659.977919	757.11
Imperial Highway and Douglas Street (north leg)	1,590,959	505,434	2,096,393	Cargo	25	0.016878	659.977919	25.74
Imperial Highway and unsignalized driveway e/o Hughes Way (north leg)	1,403,408	445,851	1,849,260	Cargo	25	0.23636	659.977919	317.99
Imperial Highway and Hughes Way (north leg)	1,842,058	585,207	2,427,265	Cargo	25	0.14874	659.977919	262.65
Imperial Highway and Hughes Way (north leg)	1,842,058	585,207	2,427,265	Cargo	25	0.051972	659.977919	91.77
Imperial Highway and Imperial Terminal (north leg)	964,069	306,277	1,270,345	Cargo	25	0.371507	659.977919	343.34
Imperial Highway and Imperial Terminal (north leg)	964,069	306,277	1,270,345	Cargo	25	0.073319	659.977919	67.76
Century Boulevard and Postal Road/International Road (south leg)	1,821,980	578,828	2,400,808	Cargo	25	0.277863	659.977919	485.32
Imperial Highway and Kilroy Center Drive (north leg)	206,077	65,469	271,545	Cargo	25	0.19376	659.977919	38.28
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.503228		-
See "Airfield Traffic"	7,965,288	1,339,955	9,305,243	Non-Cargo	10	0.088629	781.804769	710.74
See "Airfield Traffic"	5,686,887	956,673	6,643,560	Non-Cargo	10	0.162034	781.804769	927.71
See "Airfield Traffic"	4,748,187	798,760	5,546,947	Non-Cargo	10	0.264274	781.804769	1,263.32
See "Airfield Traffic"	0	0	0	Non-Cargo	10	0.261909		-
See "Airfield Traffic"	12,950,428	2,178,577	15,129,005	Non-Cargo	10	0.198233	781.804769	2,584.59
See "Airfield Traffic"	2,064,231	347,254	2,411,485	Non-Cargo	10	0.143971	781.804769	299.20
See "Airfield Traffic"	3,043,943	512,065	3,556,008	Non-Cargo	10	0.123173	781.804769	377.47
See "Airfield Traffic"	3,422,157	575,690	3,997,847	Non-Cargo	10	0.220601	781.804769	760.04
See "Airfield Traffic"	12,084,636	2,032,929	14,117,565	Non-Cargo	10	0.11839	781.804769	1,440.39
See "Airfield Traffic"	15,889,564	2,673,011	18,562,575	Non-Cargo	10	0.12198	781.804769	1,951.33
See "Airfield Traffic"	16,532,074	2,781,096	19,313,170	Non-Cargo	10	0.23309	781.804769	3,879.56
See "Airfield Traffic"	13,442,562	2,261,366	15,703,928	Non-Cargo	10	0.148023	781.804769	2,003.28
See "Airfield Traffic"	12,080,079	2,032,163	14,112,242	Non-Cargo	10	0.13649	781.804769	1,659.98
See "Airfield Traffic"	11,218,844	1,887,282	13,106,126	Non-Cargo	10	0.120701	781.804769	1,363.30
See "Airfield Traffic"	11,569,717	1,946,308	13,516,025	Non-Cargo	10	0.116998	781.804769	1,362.80
See "Airfield Traffic"	11,988,943	2,016,831	14,005,774	Non-Cargo	10	0.264356	781.804769	3,190.81
See "Airfield Traffic"	2,848,000	479,103	3,327,103	Non-Cargo	10	0.153091	781.804769	438.96
See "Airfield Traffic"	11,834,012	1,990,768	13,824,780	Non-Cargo	10	0.246549	781.804769	2,937.42
Century Boulevard and Postal Road/International Road (south leg)	1,821,980	578,828	2,400,808	Cargo	25	0.353988	659.977919	618.28
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.580918		-
See "Airfield Traffic"	0	0	0	Non-Cargo	35	0.495844		-
See "Airfield Traffic"	8,908,545	1,498,634	10,407,179	Non-Cargo	15	0.109319	606.605061	760.75
See "Airfield Traffic"	1,786,266	300,493	2,086,759	Non-Cargo	15	0.169561	606.605061	236.60
See "Airfield Traffic"	4,374,529	735,902	5,110,431	Non-Cargo	15	0.166669	606.605061	569.54
See "Airfield Traffic"	4,306,176	724,404	5,030,580	Non-Cargo	15	0.2108	606.605061	709.09
See "Airfield Traffic"	7,860,481	1,322,324	9,182,805	Non-Cargo	15	0.131905	606.605061	809.93
See "Airfield Traffic"	13,378,767	2,250,634	15,629,401	Non-Cargo	15	0.123916	606.605061	1,295.04
See "Airfield Traffic"	12,230,454	2,057,459	14,287,913	Non-Cargo	15	0.230565	606.605061	2,202.80
See "Airfield Traffic"	8,170,344	1,374,450	9,544,794	Non-Cargo	15	0.163195	606.605061	1,041.56
See "Airfield Traffic"	7,641,755	1,285,529	8,927,284	Non-Cargo	15	0.15169	606.605061	905.50
See "Airfield Traffic"	11,597,058	1,950,907	13,547,965	Non-Cargo	15	0.235378	606.605061	2,132.32
See "Airfield Traffic"	12,417,282	2,088,889	14,506,171	Non-Cargo	15	0.211702	606.605061	2,053.48
See "Airfield Traffic"	4,055,553	682,242	4,737,795	Non-Cargo	15	0.182527	606.605061	578.25
See "Airfield Traffic"	8,042,753	1,352,987	9,395,740	Non-Cargo	15	0.329887	606.605061	2,072.57
Imperial Highway and unsignalized driveway w/o Aviation Blvd. (north leg)	450,571	143,143	593,713	Cargo	25	0.015968	659.977919	6.90
See "Airfield Traffic"	0	0	0	Non-Cargo	25	0.86652		-
<b>Total</b>								<b>48,388.47</b>

**Table 22**  
**On-Airport Roadway Emissions - Alternative 3**

Description	Volume			Road Type	Speed (mph)	Distance (mi)	Emission Factor CO2 (g/m)	Emissions CO2 (tpy)
	Cars	Trucks	Total					
Aviation Boulevard and 104th Street (west leg)	1,611,922	512,094	2,124,017	Cargo	25	0.267612	659.977919	413.52
Aviation Boulevard and 111th Street (west leg)	2,254,076	716,101	2,970,177	Cargo	25	0.233206	659.977919	503.92
Aviation Boulevard and 111th Street (west leg)	2,254,076	716,101	2,970,177	Cargo	25	0.035112	659.977919	75.87
Century Boulevard and Airport Boulevard (south leg)	1,029,286	326,995	1,356,281	Cargo	25	0.155198	659.977919	153.13
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.511899	0	-
Century Boulevard and Avion Drive (south leg)	1,680,354	533,835	2,214,189	Cargo	25	0.201293	659.977919	324.25
Imperial Highway and California Street (north leg)	1,103,313	350,513	1,453,827	Cargo	25	0.225164	659.977919	238.15
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.533015	0	-
Imperial Highway and Douglas Street (north leg)	1,590,959	505,434	2,096,393	Cargo	25	0.496422	659.977919	757.11
Imperial Highway and Douglas Street (north leg)	1,590,959	505,434	2,096,393	Cargo	25	0.016878	659.977919	25.74
Imperial Highway and unsignalized driveway e/o Hughes Way (north leg)	1,403,408	445,851	1,849,260	Cargo	25	0.23636	659.977919	317.99
Alt 3 GTC-ITC tab	28,587,299	1,412,701	30,000,000	Non-Cargo	30	1.1137	294.899814	10,861.02
Alt 3 GTC-ITC tab	4,764,550	235,450	5,000,000	Non-Cargo	25	0.45637	339.148626	853.07
Alt 3 GTC-ITC tab	9,529,100	470,900	10,000,000	Non-Cargo	25	0.459124	339.148626	1,716.43
Alt 3 GTC-ITC tab	14,293,650	706,350	15,000,000	Non-Cargo	25	0.373926	339.148626	2,096.88
Alt 3 GTC-ITC tab	7,940,916	392,417	8,333,333	Non-Cargo	25	0.365988	339.148626	1,140.20
Alt 3 GTC-ITC tab	17,470,016	863,317	18,333,333	Non-Cargo	25	0.375524	339.148626	2,573.81
Alt 3 GTC-ITC tab	5,241,005	258,995	5,500,000	Non-Cargo	35	0.379	265.173991	609.31
Imperial Highway and Hughes Way (north leg)	1,842,058	585,207	2,427,265	Cargo	25	0.14874	659.977919	262.65
Imperial Highway and Hughes Way (north leg)	1,842,058	585,207	2,427,265	Cargo	25	0.051972	659.977919	91.77
Imperial Highway and Imperial Terminal (north leg)	964,069	306,277	1,270,345	Cargo	25	0.371507	659.977919	343.34
Imperial Highway and Imperial Terminal (north leg)	964,069	306,277	1,270,345	Cargo	25	0.073319	659.977919	67.76
Century Boulevard and Postal Road/International Road (south leg)	1,821,980	578,828	2,400,808	Cargo	25	0.277863	659.977919	485.32
Imperial Highway and Kilroy Center Drive (north leg)	206,077	65,469	271,545	Cargo	25	0.19376	659.977919	38.28
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.503228	0	-
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	7,965,288	1,339,955	9,305,243	Non-Cargo	10	0.088629	781.804769	710.74
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	5,686,887	956,673	6,643,560	Non-Cargo	10	0.162034	781.804769	927.71
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	4,748,187	798,760	5,546,947	Non-Cargo	10	0.264274	781.804769	1,263.32
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	0	0	0	Non-Cargo	10	0.261909	0	-
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	12,950,428	2,178,577	15,129,005	Non-Cargo	10	0.198233	781.804769	2,584.59
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	2,064,231	347,254	2,411,485	Non-Cargo	10	0.143971	781.804769	299.20
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	3,043,943	512,065	3,556,008	Non-Cargo	10	0.123173	781.804769	377.47
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	12,084,636	2,032,929	14,117,565	Non-Cargo	10	0.11839	781.804769	1,440.39
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	15,889,564	2,673,011	18,562,575	Non-Cargo	10	0.12198	781.804769	1,951.33
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	16,532,074	2,781,096	19,313,170	Non-Cargo	10	0.23309	781.804769	3,879.56
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	13,442,562	2,261,366	15,703,928	Non-Cargo	10	0.148023	781.804769	2,003.28
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	12,080,079	2,032,163	14,112,242	Non-Cargo	10	0.13649	781.804769	1,659.98
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	11,218,844	1,887,282	13,106,126	Non-Cargo	10	0.120701	781.804769	1,363.30
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	11,569,717	1,946,308	13,516,025	Non-Cargo	10	0.116998	781.804769	1,362.80
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	11,988,943	2,016,831	14,005,774	Non-Cargo	10	0.264356	781.804769	3,190.81
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	2,848,000	479,103	3,327,103	Non-Cargo	10	0.153091	781.804769	438.96
Data from LAX_SPAS_VMT_By_Speed_Bin.xlsx Alt 3 CTA	11,834,012	1,990,768	13,824,780	Non-Cargo	10	0.246549	781.804769	2,937.42
Century Boulevard and Postal Road/International Road (south leg)	1,821,980	578,828	2,400,808	Cargo	25	0.353988	659.977919	618.28
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.580918	0	-
Imperial Highway and unsignalized driveway w/o Aviation Blvd. (north leg)	450,571	143,143	593,713	Cargo	25	0.015968	659.977919	6.90
See "Airfield Traffic"	0	0	0	Non-Cargo	25	0.86652	0	-
<b>Total</b>								<b>50,965.54</b>



**Table 23**  
**On-Airport Roadway Emissions - Alternative 4**

Description	Volume			Road Type	Speed (mph)	Distance (mi)	Emission Factor CO2 (g/m)	Emissions CO2 (tpy)
	Cars	Trucks	Total					
Aviation Boulevard and 104th Street (west leg)	1,611,922	512,094	2,124,017	Cargo	25	0.267612	659.977919	413.52
Aviation Boulevard and 111th Street (west leg)	2,254,076	716,101	2,970,177	Cargo	25	0.233206	659.977919	503.92
Aviation Boulevard and 111th Street (west leg)	2,254,076	716,101	2,970,177	Cargo	25	0.035112	659.977919	75.87
Century Boulevard and Airport Boulevard (south leg)	1,029,286	326,995	1,356,281	Cargo	25	0.155198	659.977919	153.13
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.511899	0	-
Century Boulevard and Avion Drive (south leg)	1,680,354	533,835	2,214,189	Cargo	25	0.201293	659.977919	324.25
Imperial Highway and California Street (north leg)	1,103,313	350,513	1,453,827	Cargo	25	0.225164	659.977919	238.15
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.533015	0	-
Imperial Highway and Douglas Street (north leg)	1,590,959	505,434	2,096,393	Cargo	25	0.496422	659.977919	757.11
Imperial Highway and Douglas Street (north leg)	1,590,959	505,434	2,096,393	Cargo	25	0.016878	659.977919	25.74
Imperial Highway and unsignalized driveway e/o Hughes Way (north leg)	1,403,408	445,851	1,849,260	Cargo	25	0.23636	659.977919	317.99
Imperial Highway and Hughes Way (north leg)	1,842,058	585,207	2,427,265	Cargo	25	0.14874	659.977919	262.65
Imperial Highway and Hughes Way (north leg)	1,842,058	585,207	2,427,265	Cargo	25	0.051972	659.977919	91.77
Imperial Highway and Imperial Terminal (north leg)	964,069	306,277	1,270,345	Cargo	25	0.371507	659.977919	343.34
Imperial Highway and Imperial Terminal (north leg)	964,069	306,277	1,270,345	Cargo	25	0.073319	659.977919	67.76
Century Boulevard and Postal Road/International Road (south leg)	1,821,980	578,828	2,400,808	Cargo	25	0.277863	659.977919	485.32
Imperial Highway and Kilroy Center Drive (north leg)	206,077	65,469	271,545	Cargo	25	0.19376	659.977919	38.28
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.503228	0	-
See "Airfield Traffic"	7,965,288	1,339,955	9,305,243	Non-Cargo	10	0.088629	781.804769	710.74
See "Airfield Traffic"	5,686,887	956,673	6,643,560	Non-Cargo	10	0.162034	781.804769	927.71
See "Airfield Traffic"	4,748,187	798,760	5,546,947	Non-Cargo	10	0.264274	781.804769	1,263.32
See "Airfield Traffic"	0	0	0	Non-Cargo	10	0.261909	0	-
See "Airfield Traffic"	12,950,428	2,178,577	15,129,005	Non-Cargo	10	0.198233	781.804769	2,584.59
See "Airfield Traffic"	2,064,231	347,254	2,411,485	Non-Cargo	10	0.143971	781.804769	299.20
See "Airfield Traffic"	3,043,943	512,065	3,556,008	Non-Cargo	10	0.123173	781.804769	377.47
See "Airfield Traffic"	3,422,157	575,690	3,997,847	Non-Cargo	10	0.220601	781.804769	760.04
See "Airfield Traffic"	12,084,636	2,032,929	14,117,565	Non-Cargo	10	0.11839	781.804769	1,440.39
See "Airfield Traffic"	15,889,564	2,673,011	18,562,575	Non-Cargo	10	0.12198	781.804769	1,951.33
See "Airfield Traffic"	16,532,074	2,781,096	19,313,170	Non-Cargo	10	0.23309	781.804769	3,879.56
See "Airfield Traffic"	13,442,562	2,261,366	15,703,928	Non-Cargo	10	0.148023	781.804769	2,003.28
See "Airfield Traffic"	12,080,079	2,032,163	14,112,242	Non-Cargo	10	0.13649	781.804769	1,659.98
See "Airfield Traffic"	11,218,844	1,887,282	13,106,126	Non-Cargo	10	0.120701	781.804769	1,363.30
See "Airfield Traffic"	11,569,717	1,946,308	13,516,025	Non-Cargo	10	0.116998	781.804769	1,362.80
See "Airfield Traffic"	11,988,943	2,016,831	14,005,774	Non-Cargo	10	0.264356	781.804769	3,190.81
See "Airfield Traffic"	2,848,000	479,103	3,327,103	Non-Cargo	10	0.153091	781.804769	438.96
See "Airfield Traffic"	11,834,012	1,990,768	13,824,780	Non-Cargo	10	0.246549	781.804769	2,937.42
Century Boulevard and Postal Road/International Road (south leg)	1,821,980	578,828	2,400,808	Cargo	25	0.353735	659.977919	617.83
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.580918	0	-
See "Airfield Traffic"	0	0	0	Non-Cargo	35	0.366969	0	-
See "Airfield Traffic"	8,908,545	1,498,634	10,407,179	Non-Cargo	15	0.109319	606.605061	760.75
See "Airfield Traffic"	1,786,266	300,493	2,086,759	Non-Cargo	15	0.169561	606.605061	236.60
See "Airfield Traffic"	4,374,529	735,902	5,110,431	Non-Cargo	15	0.166669	606.605061	569.54
See "Airfield Traffic"	4,306,176	724,404	5,030,580	Non-Cargo	15	0.2108	606.605061	709.09
See "Airfield Traffic"	7,860,481	1,322,324	9,182,805	Non-Cargo	15	0.131905	606.605061	809.93
See "Airfield Traffic"	13,378,767	2,250,634	15,629,401	Non-Cargo	15	0.123916	606.605061	1,295.04
See "Airfield Traffic"	12,230,454	2,057,459	14,287,913	Non-Cargo	15	0.230565	606.605061	2,202.80
See "Airfield Traffic"	8,170,344	1,374,450	9,544,794	Non-Cargo	15	0.163195	606.605061	1,041.56
See "Airfield Traffic"	7,641,755	1,285,529	8,927,284	Non-Cargo	15	0.15169	606.605061	905.50
See "Airfield Traffic"	11,597,058	1,950,907	13,547,965	Non-Cargo	15	0.235378	606.605061	2,132.32
See "Airfield Traffic"	12,417,282	2,088,889	14,506,171	Non-Cargo	15	0.211702	606.605061	2,053.48
See "Airfield Traffic"	4,055,553	682,242	4,737,795	Non-Cargo	15	0.182527	606.605061	578.25
See "Airfield Traffic"	8,042,753	1,352,987	9,395,740	Non-Cargo	15	0.329887	606.605061	2,072.57
Imperial Highway and unsignalized driveway w/o Aviation Blvd. (north leg)	450,571	143,143	593,713	Cargo	25	0.015968	659.977919	6.90
See "Airfield Traffic"	0	0	0	Non-Cargo	25	1.402839	0	-
<b>Total</b>								<b>47,241.85</b>

**Table 24**  
**On-Airport Roadway Emissions - Alternative 8**

Description	Volume			Road Type	Speed (mph)	Distance (mi)	Emission Factor CO2 (g/m)	Emissions CO2 (tpy)
	Cars	Trucks	Total					
Aviation Boulevard and 104th Street (west leg)	1,611,922	512,094	2,124,017	Cargo	25	0.267612	659.977919	413.52
Aviation Boulevard and 111th Street (west leg)	2,254,076	716,101	2,970,177	Cargo	25	0.233206	659.977919	503.92
Aviation Boulevard and 111th Street (west leg)	2,254,076	716,101	2,970,177	Cargo	25	0.035112	659.977919	75.87
Century Boulevard and Airport Boulevard (south leg)	1,029,286	326,995	1,356,281	Cargo	25	0.155198	659.977919	153.13
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.511899	0	-
Century Boulevard and Avion Drive (south leg)	1,680,354	533,835	2,214,189	Cargo	25	0.201293	659.977919	324.25
Busway (ITF - Manchester Square)	0	207,560	207,560	Non-Cargo	40	0.741296	861.803917	146.17
Busway (World Way South - ITF)	0	207,560	207,560	Non-Cargo	40	1.238539	861.803917	244.21
Busway (World Way North - ITF)	0	207,560	207,560	Non-Cargo	40	0.578829	861.803917	114.13
Imperial Highway and California Street (north leg)	1,103,313	350,513	1,453,827	Cargo	25	0.225164	659.977919	238.15
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.533015	0	-
Imperial Highway and Douglas Street (north leg)	1,590,959	505,434	2,096,393	Cargo	25	0.496422	659.977919	757.11
Imperial Highway and Douglas Street (north leg)	1,590,959	505,434	2,096,393	Cargo	25	0.016878	659.977919	25.74
Imperial Highway and unsignalized driveway e/o Hughes Way (north leg)	1,403,408	445,851	1,849,260	Cargo	25	0.23636	659.977919	317.99
Imperial Highway and Hughes Way (north leg)	1,842,058	585,207	2,427,265	Cargo	25	0.14874	659.977919	262.65
Imperial Highway and Hughes Way (north leg)	1,842,058	585,207	2,427,265	Cargo	25	0.051972	659.977919	91.77
Imperial Highway and Imperial Terminal (north leg)	964,069	306,277	1,270,345	Cargo	25	0.371507	659.977919	343.34
Imperial Highway and Imperial Terminal (north leg)	964,069	306,277	1,270,345	Cargo	25	0.073319	659.977919	67.76
Century Boulevard and Postal Road/International Road (south leg)	1,821,980	578,828	2,400,808	Cargo	25	0.277863	659.977919	485.32
Imperial Highway and Kilroy Center Drive (north leg)	206,077	65,469	271,545	Cargo	25	0.19376	659.977919	38.28
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.503228	0	-
See "Airfield Traffic"	7,965,288	1,339,955	9,305,243	Non-Cargo	10	0.088629	781.804769	710.74
See "Airfield Traffic"	5,686,887	956,673	6,643,560	Non-Cargo	10	0.162034	781.804769	927.71
See "Airfield Traffic"	4,748,187	798,760	5,546,947	Non-Cargo	10	0.264274	781.804769	1,263.32
See "Airfield Traffic"	0	0	0	Non-Cargo	10	0.261909	0	-
See "Airfield Traffic"	12,950,428	2,178,577	15,129,005	Non-Cargo	10	0.198233	781.804769	2,584.59
See "Airfield Traffic"	2,064,231	347,254	2,411,485	Non-Cargo	10	0.143971	781.804769	299.20
See "Airfield Traffic"	3,043,943	512,065	3,556,008	Non-Cargo	10	0.123173	781.804769	377.47
See "Airfield Traffic"	3,422,157	575,690	3,997,847	Non-Cargo	10	0.220601	781.804769	760.04
See "Airfield Traffic"	11,975,272	2,014,532	13,989,804	Non-Cargo	10	0.11839	781.804769	1,427.35
See "Airfield Traffic"	15,698,179	2,640,815	18,338,994	Non-Cargo	10	0.12198	781.804769	1,927.83
See "Airfield Traffic"	16,340,687	2,748,901	19,089,588	Non-Cargo	10	0.23309	781.804769	3,834.64
See "Airfield Traffic"	13,333,199	2,242,968	15,576,167	Non-Cargo	10	0.148023	781.804769	1,986.99
See "Airfield Traffic"	11,970,716	2,013,765	13,984,481	Non-Cargo	10	0.13649	781.804769	1,644.95
See "Airfield Traffic"	11,027,458	1,855,086	12,882,544	Non-Cargo	10	0.120701	781.804769	1,340.04
See "Airfield Traffic"	11,382,889	1,914,878	13,297,767	Non-Cargo	10	0.116998	781.804769	1,340.79
See "Airfield Traffic"	11,802,114	1,985,402	13,787,516	Non-Cargo	10	0.264356	781.804769	3,141.09
See "Airfield Traffic"	2,770,535	466,071	3,236,606	Non-Cargo	10	0.153091	781.804769	427.02
See "Airfield Traffic"	11,647,183	1,959,339	13,606,522	Non-Cargo	10	0.246549	781.804769	2,891.05
Century Boulevard and Postal Road/International Road (south leg)	1,821,980	578,828	2,400,808	Cargo	25	0.353988	659.977919	618.28
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.580918	0	-
See "Airfield Traffic"	0	0	0	Non-Cargo	35	0.495844	0	-
See "Airfield Traffic"	8,908,545	1,498,634	10,407,179	Non-Cargo	15	0.109319	606.605061	760.75
See "Airfield Traffic"	1,786,266	300,493	2,086,759	Non-Cargo	15	0.169561	606.605061	236.60
See "Airfield Traffic"	4,374,529	735,902	5,110,431	Non-Cargo	15	0.166669	606.605061	569.54
See "Airfield Traffic"	4,306,176	724,404	5,030,580	Non-Cargo	15	0.2108	606.605061	709.09
See "Airfield Traffic"	7,860,481	1,322,324	9,182,805	Non-Cargo	15	0.131905	606.605061	809.93
See "Airfield Traffic"	13,378,767	2,250,634	15,629,401	Non-Cargo	15	0.123916	606.605061	1,295.04
See "Airfield Traffic"	12,230,454	2,057,459	14,287,913	Non-Cargo	15	0.230565	606.605061	2,202.80
See "Airfield Traffic"	8,170,344	1,374,450	9,544,794	Non-Cargo	15	0.163195	606.605061	1,041.56
See "Airfield Traffic"	7,641,755	1,285,529	8,927,284	Non-Cargo	15	0.15169	606.605061	905.50
See "Airfield Traffic"	11,597,058	1,950,907	13,547,965	Non-Cargo	15	0.235378	606.605061	2,132.32
See "Airfield Traffic"	12,417,282	2,088,889	14,506,171	Non-Cargo	15	0.211702	606.605061	2,053.48
See "Airfield Traffic"	4,055,553	682,242	4,737,795	Non-Cargo	15	0.182527	606.605061	578.25
See "Airfield Traffic"	8,042,753	1,352,987	9,395,740	Non-Cargo	15	0.329887	606.605061	2,072.57
Imperial Highway and unsignalized driveway w/o Aviation Blvd. (north leg)	450,571	143,143	593,713	Cargo	25	0.015968	659.977919	6.90
See "Airfield Traffic"	0	0	0	Non-Cargo	25	0.86652	0	-
<b>Total</b>								<b>47,480.73</b>

**Table 25**  
**On-Airport Roadway Emissions - Alternative 9**

Description	Volume			Road Type	Speed (mph)	Distance (mi)	Emission Factor CO2 (g/m)	Emissions CO2 (tpy)
	Cars	Trucks	Total					
Aviation Boulevard and 104th Street (west leg)	1,611,922	512,094	2,124,017	Cargo	25	0.267612	659.977919	413.52
Aviation Boulevard and 111th Street (west leg)	2,254,076	716,101	2,970,177	Cargo	25	0.233206	659.977919	503.92
Aviation Boulevard and 111th Street (west leg)	2,254,076	716,101	2,970,177	Cargo	25	0.035112	659.977919	75.87
Century Boulevard and Airport Boulevard (south leg)	1,029,286	326,995	1,356,281	Cargo	25	0.155198	659.977919	153.13
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.511899	0	-
Century Boulevard and Avion Drive (south leg)	1,680,354	533,835	2,214,189	Cargo	25	0.201293	659.977919	324.25
Imperial Highway and California Street (north leg)	1,103,313	350,513	1,453,827	Cargo	25	0.225164	659.977919	238.15
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.533015	0	-
Imperial Highway and Douglas Street (north leg)	1,590,959	505,434	2,096,393	Cargo	25	0.496422	659.977919	757.11
Imperial Highway and Douglas Street (north leg)	1,590,959	505,434	2,096,393	Cargo	25	0.016878	659.977919	25.74
Imperial Highway and unsignalized driveway e/o Hughes Way (north leg)	1,403,408	445,851	1,849,260	Cargo	25	0.23636	659.977919	317.99
Imperial Highway and Hughes Way (north leg)	1,842,058	585,207	2,427,265	Cargo	25	0.14874	659.977919	262.65
Imperial Highway and Hughes Way (north leg)	1,842,058	585,207	2,427,265	Cargo	25	0.051972	659.977919	91.77
Imperial Highway and Imperial Terminal (north leg)	964,069	306,277	1,270,345	Cargo	25	0.371507	659.977919	343.34
Imperial Highway and Imperial Terminal (north leg)	964,069	306,277	1,270,345	Cargo	25	0.073319	659.977919	67.76
Century Boulevard and Postal Road/International Road (south leg)	1,821,980	578,828	2,400,808	Cargo	25	0.277863	659.977919	485.32
Imperial Highway and Kilroy Center Drive (north leg)	206,077	65,469	271,545	Cargo	25	0.19376	659.977919	38.28
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.503228	0	-
See "Airfield Traffic"	7,965,288	1,339,955	9,305,243	Non-Cargo	10	0.088629	781.804769	710.74
See "Airfield Traffic"	5,686,887	956,673	6,643,560	Non-Cargo	10	0.162034	781.804769	927.71
See "Airfield Traffic"	4,748,187	798,760	5,546,947	Non-Cargo	10	0.264274	781.804769	1,263.32
See "Airfield Traffic"	0	0	0	Non-Cargo	10	0.261909	0	-
See "Airfield Traffic"	12,950,428	2,178,577	15,129,005	Non-Cargo	10	0.198233	781.804769	2,584.59
See "Airfield Traffic"	2,064,231	347,254	2,411,485	Non-Cargo	10	0.143971	781.804769	299.20
See "Airfield Traffic"	3,043,943	512,065	3,556,008	Non-Cargo	10	0.123173	781.804769	377.47
See "Airfield Traffic"	3,422,157	575,690	3,997,847	Non-Cargo	10	0.220601	781.804769	760.04
See "Airfield Traffic"	11,710,978	1,970,071	13,681,049	Non-Cargo	10	0.11839	781.804769	1,395.85
See "Airfield Traffic"	15,187,817	2,554,960	17,742,777	Non-Cargo	10	0.12198	781.804769	1,865.16
See "Airfield Traffic"	15,830,326	2,663,045	18,493,371	Non-Cargo	10	0.23309	781.804769	3,714.88
See "Airfield Traffic"	13,068,905	2,198,507	15,267,412	Non-Cargo	10	0.148023	781.804769	1,947.60
See "Airfield Traffic"	11,706,421	1,969,305	13,675,726	Non-Cargo	10	0.13649	781.804769	1,608.63
See "Airfield Traffic"	10,517,096	1,769,231	12,286,327	Non-Cargo	10	0.120701	781.804769	1,278.02
See "Airfield Traffic"	10,867,970	1,828,257	12,696,227	Non-Cargo	10	0.116998	781.804769	1,280.14
See "Airfield Traffic"	11,287,195	1,898,781	13,185,976	Non-Cargo	10	0.264356	781.804769	3,004.04
See "Airfield Traffic"	2,519,911	423,910	2,943,821	Non-Cargo	10	0.153091	781.804769	388.39
See "Airfield Traffic"	11,132,265	1,872,717	13,004,982	Non-Cargo	10	0.246549	781.804769	2,763.24
Century Boulevard and Postal Road/International Road (south leg)	1,821,980	578,828	2,400,808	Cargo	25	0.353988	659.977919	618.28
OFF AIRPORT - NO TRAFFIC VOLUME	0	0	0	Non-Cargo	35	1.580918	0	-
See "Airfield Traffic"	0	0	0	Non-Cargo	35	0.495844	0	-
See "Airfield Traffic"	8,908,545	1,498,634	10,407,179	Non-Cargo	15	0.109319	606.605061	760.75
See "Airfield Traffic"	1,786,266	300,493	2,086,759	Non-Cargo	15	0.169561	606.605061	236.60
See "Airfield Traffic"	4,096,564	689,142	4,785,706	Non-Cargo	15	0.166669	606.605061	533.35
See "Airfield Traffic"	4,028,212	677,643	4,705,855	Non-Cargo	15	0.2108	606.605061	663.32
See "Airfield Traffic"	7,723,777	1,299,327	9,023,104	Non-Cargo	15	0.131905	606.605061	795.85
See "Airfield Traffic"	13,100,803	2,203,873	15,304,676	Non-Cargo	15	0.123916	606.605061	1,268.13
See "Airfield Traffic"	11,952,489	2,010,699	13,963,188	Non-Cargo	15	0.230565	606.605061	2,152.73
See "Airfield Traffic"	8,038,197	1,352,220	9,390,417	Non-Cargo	15	0.163195	606.605061	1,024.72
See "Airfield Traffic"	7,505,051	1,262,532	8,767,583	Non-Cargo	15	0.15169	606.605061	889.30
See "Airfield Traffic"	11,319,093	1,904,147	13,223,240	Non-Cargo	15	0.235378	606.605061	2,081.21
See "Airfield Traffic"	12,139,318	2,042,128	14,181,446	Non-Cargo	15	0.211702	606.605061	2,007.51
See "Airfield Traffic"	3,914,292	658,479	4,572,771	Non-Cargo	15	0.182527	606.605061	558.11
See "Airfield Traffic"	8,042,753	1,352,987	9,395,740	Non-Cargo	15	0.329887	606.605061	2,072.57
Imperial Highway and unsignalized driveway w/o Aviation Blvd. (north leg)	450,571	143,143	593,713	Cargo	25	0.015968	659.977919	6.90
See "Airfield Traffic"	0	0	0	Non-Cargo	25	0.86652	0	-
<b>Total</b>								<b>45,937.13</b>

**Table 26**  
**Non-Cargo On-Airport Annual Traffic Volume**

	EDMS Link	Baseline	Alt 1/2	Alt 3	Alt 4	Alt 8	Alt 9
<b>Lower Level</b>							
Sky Way Entry	LL Sky Entry	3135462	3997847		4311926	3997847	3997847
Century Blvd/Sepulveda Blvd Entrance	LL Century Entry	10343299	15129005		14410350	15129005	15129005
Terminal 1	LL Terminal 1	15118358	18562575		20335256	18338994	17742777
Terminal 2	LL Terminal 2	14554081	19313170		21048587	19089588	18493371
Terminal 3	LL Terminal 3	12419412	15703928		16885715	15576167	15267412
TBIT	LL TBIT	11285535	14117565		15219502	13989804	13681049
New Central Processor Curbsides	LL Central Proc	0	3327103		3864763	3236606	2943821
Terminal 4	LL Terminal 4	10923546	14112242		15219502	13984481	13675726
Terminal 5	LL Terminal 5	10162305	13106126		14527464	12882544	12286327
Terminal 6	LL Terminal 6	9986634	13516025		14958657	13297767	12696227
Terminal 7	LL Terminal 7	10199568	14005774		15464377	13787516	13185976
East Way	LL East Way	1927058	2411485		2459395	2411485	2411485
West Way	LL West Way	2523275	0		0	0	0
Center Way b/w West Way/New Central Processor Rd & East Way	LL Center (W-E) N	4956053	5546947		5584210	5546947	5546947
	LL Center (W-E) S	0	0		0	0	0
Center Way b/w East Way & LAWA Admin Building	LL Center (E-Admn)	5706648	6643560		6675500	6643560	6643560
Center Way b/w LAWA Admin Bldg & Sepulveda Interchange	LL Center (Admn-Ext)	7846641	9305243		9129572	9305243	9305243
Exit to Century Blvd/Sepulveda Blvd	LL World S Exit	9853549	13824780		15278059	13606522	13004982
Recirculation Rd	LL Recirculation	2486012	3556008		3534715	3556008	3556008
<b>Upper Level</b>							
Sky Way Entry	UL Sky Entry	4200135	5030580		4748442	5030580	4705855
Century Blvd/Sepulveda Blvd Entrance	UL Century Entry	9347830	10407179		11109864	10407179	10407179
Terminal 1	UL Terminal 1	13760900	15629401		16028653	15629401	15304676
Terminal 2	UL Terminal 2	12754784	14287913		14655225	14287913	13963188
Terminal 3	UL Terminal 3	8980517	9544794		9949370	9544794	9390417
TBIT	UL TBIT	8730319	9182805		9560764	9182805	9023104
Central Processor	UL Central Proc	0	4737795		4705855	4737795	4572771
Terminal 4	UL Terminal 4	8559972	8927284		9315890	8927284	8767583
Terminal 5	UL Terminal 5-6	12499262	13547965		13893984	13547965	13223240
Terminal 6	N/A	12499262	13547965		13893984	13547965	13223240
Terminal 7	UL Terminal 7	13249857	14506171		14932040	14506171	14181446
East Way	UL East Way	1735417	2086759		1958998	2086759	2086759
West Way	UL West Way	3774266	0		0	0	0
Exit to Century Blvd/Sepulveda Blvd	UL World S Exit	8166043	9395740		9417033	9395740	9395740
To Recirculation Rd & Lower Level	UL Recirculation	5083814	5110431		5515007	5110431	4785706

**Table 27**  
**LAX SPAS**  
**Traffic Volumes and Mode Splits**

Roadway Section	Existing	Passenger Car	Shuttles	Buses	Link
Sky Way Entry	589	87.9%	12.1%	0.0%	LAX CTA Lower Level
Century Blvd. And Sepulveda Blvd. Entrance	1943	99.3%	0.0%	0.7%	
Terminal 1 Inner	323	78.0%	22.0%	0.0%	
Terminal 1 Outer	2517	87.1%	6.8%	6.0%	
Terminal 2 Inner	80	100.0%	0.0%	0.0%	
Terminal 2 Outer	2654	85.1%	9.2%	5.7%	
Terminal 3 Inner	90	100.0%	0.0%	0.0%	
Terminal 3 Outer	2243	82.4%	10.8%	6.8%	
TBIT Inner	340	100.0%	0.0%	0.0%	
TBIT Outer	1780	77.8%	13.7%	8.5%	
New Central Processor Curbsides (East Side)	0				
New Central Processor Curbsides (West Side)	0				
Terminal 4 Inner	330	100.0%	0.0%	0.0%	
Terminal 4 Outer	1722	77.1%	14.1%	8.8%	
Terminal 5 Inner	31	100.0%	0.0%	0.0%	
Terminal 5 Outer	1878	79.0%	12.9%	8.1%	
Terminal 6 Inner	235	100.0%	0.0%	0.0%	
Terminal 6 Outer	1641	75.9%	14.8%	9.3%	
Terminal 7 Inner	385	100.0%	0.0%	0.0%	
Terminal 7 Outer	1531	74.2%	15.9%	9.9%	
East Way Southbound	218	100.0%	0.0%	0.0%	
East Way Northbound	144	100.0%	0.0%	0.0%	
West Way Southbound	401	100.0%	0.0%	0.0%	
West Way Northbound	73	100.0%	0.0%	0.0%	
Center Way b/w West Way/New Central Processor Rd & East Way	931	100.0%	0.0%	0.0%	
Center Way b/w East Way & LAWA Admin Building	1072	100.0%	0.0%	0.0%	
Center Way b/w LAWA Admin Building & Sepulveda Interchange	1474	100.0%	0.0%	0.0%	
Exit to Century Blvd./Sepulveda Blvd.	1851	78.7%	13.1%	8.2%	
Recirculation Road	467	91.4%	0.0%	8.6%	
Century exit	1803	87.2%	8.8%	4.0%	
Sepulveda Exit	1054	88.2%	8.1%	3.7%	
Sky Way Entry	789	86.9%	7.0%	6.2%	LAX CTA Upper Level
Century Blvd and Sepulveda Blvd Entrance	1756	85.5%	7.7%	6.8%	
Terminal 1	2585	86.2%	7.3%	6.5%	
Terminal 2	2396	85.1%	7.9%	7.0%	
Terminal 3	1687	78.9%	11.2%	9.9%	
TBIT	1640	78.2%	11.5%	10.2%	
Central Processor	0				
Terminal 4	1608	77.8%	11.8%	10.4%	
Terminal 5	2348	84.8%	8.1%	7.2%	
Terminal 6	2348	84.8%	8.1%	7.2%	
Terminal 7	2489	85.6%	7.6%	6.8%	
East Way Southbound	255	100.0%	0.0%	0.0%	
East Way Northbound	71	100.0%	0.0%	0.0%	
West Way	709	100.0%	0.0%	0.0%	
Exit Century	920	100.0%	0.0%	0.0%	
Exit Sepulveda	614	100.0%	0.0%	0.0%	
To Recirculation Rd & Lower Level	955	63.0%	19.6%	17.4%	

**Weighted Average Fleet Mix**

Available Types	EMFAC Type	Overall Percentage
Cars	LDA, LDT1, LDT2	85.6%
Medium-Heavy Duty Trucks	MHDT	14.4%
Total		100.0%

Note: Although the fleet mix includes buses, a review of the EMFAC emission factors indicates that using the medium-heavy-duty emission factors would be approximately equal to the weighted average of MHD trucks and buses. As a result, only emission factors for MHD were used in the analysis.

Fleet mix is to be used on non-cargo roadways ONLY. Heavy-heavy-duty diesel trucks will be used on all cargo roads.

**Table 28**

LAX CTA Lower Level Traffic Volumes Roadway Section	Peak Hourly Traffic Volume					Annual Traffic Volume (trips/year)				
	Existing	No Project	Alt 1	Alt 8	Alt 9	Existing	No Project	Alt 1	Alt 8	Alt 9
Sky Way Entry	589	810	751	751	751	3,135,462	4,311,926	3,997,847	3,997,847	3,997,847
Century Blvd/Sepulveda Blvd Entrance	1,943	2,707	2,842	2,842	2,842	10,343,299	14,410,350	15,129,005	15,129,005	15,129,005
Terminal 1 Inner	323	356	303	303	303	1,719,447	1,895,118	1,612,980	1,612,980	1,612,980
Terminal 1 Outer	2,517	3,464	3,184	3,142	3,030	13,398,911	18,440,138	16,949,596	16,726,014	16,129,797
Terminal 2 Inner	80	223	212	212	212	425,869	1,187,110	1,128,553	1,128,553	1,128,553
Terminal 2 Outer	2,654	3,731	3,416	3,374	3,262	14,128,212	19,861,476	18,184,616	17,961,035	17,364,818
Terminal 3 Inner	90	249	239	239	239	479,103	1,325,518	1,272,284	1,272,284	1,272,284
Terminal 3 Outer	2,243	2,923	2,711	2,687	2,629	11,940,309	15,560,197	14,431,644	14,303,883	13,995,128
TBIT Inner	340	699	667	667	667	1,809,944	3,721,032	3,550,685	3,550,685	3,550,685
TBIT Outer	1,780	2,160	1,985	1,961	1,903	9,475,590	11,498,469	10,566,880	10,439,120	10,130,364
New Central Processor Curbsides (East)	0	524	499	499	499	0	2,789,443	2,656,359	2,656,359	2,656,359
New Central Processor Curbsides (West)	0	202	126	109	54	0	1,075,320	670,744	580,247	287,462
Terminal 4 Inner	330	365	353	353	353	1,756,711	1,943,028	1,879,148	1,879,148	1,879,148
Terminal 4 Outer	1,722	2,494	2,298	2,274	2,216	9,166,835	13,276,473	12,233,094	12,105,333	11,796,578
Terminal 5 Inner	31	518	496	496	496	165,024	2,757,503	2,640,389	2,640,389	2,640,389
Terminal 5 Outer	1,878	2,211	1,966	1,924	1,812	9,997,280	11,769,961	10,465,736	10,242,155	9,645,938
Terminal 6 Inner	235	167	160	160	160	1,250,991	889,002	851,738	851,738	851,738
Terminal 6 Outer	1,641	2,643	2,379	2,338	2,225	8,735,643	14,069,655	12,664,286	12,446,028	11,844,488
Terminal 7 Inner	385	337	324	324	324	2,049,496	1,793,974	1,724,770	1,724,770	1,724,770
Terminal 7 Outer	1,531	2,568	2,307	2,266	2,153	8,150,072	13,670,402	12,281,004	12,062,746	11,461,206
East Way Southbound	218	153	146	146	146	1,160,494	814,475	777,211	777,211	777,211
East Way Northbound	144	309	307	307	307	766,565	1,644,920	1,634,273	1,634,273	1,634,273
West Way Southbound	401	0	0	0	0	2,134,670	0	0	0	0
West Way Northbound	73	0	0	0	0	388,606	0	0	0	0
Center Way b/w West Way/New Central Processor Rd & East Way	931	1,049	1,042	1,042	1,042	4,956,053	5,584,210	5,546,947	5,546,947	5,546,947
Center Way b/w East Way & LAWA Admin Building	1,072	1,254	1,248	1,248	1,248	5,706,648	6,675,500	6,643,560	6,643,560	6,643,560
Center Way b/w LAWA Admin Bldg & Sepulveda Interchange	1,474	1,715	1,748	1,748	1,748	7,846,641	9,129,572	9,305,243	9,305,243	9,305,243
Exit to Century Blvd/Sepulveda Blvd	1,851	2,870	2,597	2,556	2,443	9,853,549	15,278,059	13,824,780	13,606,522	13,004,982
Recirculation Rd	467	664	668	668	668	2,486,012	3,534,715	3,556,008	3,556,008	3,556,008

LAX CTA Upper Level Traffic Volumes Roadway	Peak Hourly Traffic Volume					Annual Traffic Volume (trips/year)				
	Existing	No Project	Alt 1	Alt 8	Alt 9	Existing	No Project	Alt 1	Alt 8	Alt 9
Sky Way Entry	789	892	945	945	884	4,200,135	4,748,442	5,030,580	5,030,580	4,705,855
Century Blvd/Sepulveda Blvd Entrance	1,756	2,087	1,955	1,955	1,955	9,347,830	11,109,864	10,407,179	10,407,179	10,407,179
Terminal 1	2,585	3,011	2,936	2,936	2,875	13,760,900	16,028,653	15,629,401	15,629,401	15,304,676
Terminal 2	2,396	2,753	2,684	2,684	2,623	12,754,784	14,655,225	14,287,913	14,287,913	13,963,188
Terminal 3	1,687	1,869	1,793	1,793	1,764	8,980,517	9,949,370	9,544,794	9,544,794	9,390,417
TBIT	1,640	1,796	1,725	1,725	1,695	8,730,319	9,560,764	9,182,805	9,182,805	9,023,104
Central Processor	0	884	890	890	859	0	4,705,855	4,737,795	4,737,795	4,572,771
Terminal 4	1,608	1,750	1,677	1,677	1,647	8,559,972	9,315,890	8,927,284	8,927,284	8,767,583
Terminal 5	2,348	2,610	2,545	2,545	2,484	12,499,262	13,893,984	13,547,965	13,547,965	13,223,240
Terminal 6	2,348	2,610	2,545	2,545	2,484	12,499,262	13,893,984	13,547,965	13,547,965	13,223,240
Terminal 7	2,489	2,805	2,725	2,725	2,664	13,249,857	14,932,040	14,506,171	14,506,171	14,181,446
East Way Southbound	255	313	322	322	322	1,357,458	1,666,213	1,714,124	1,714,124	1,714,124
East Way Northbound	71	55	70	70	70	377,959	292,785	372,636	372,636	372,636
West Way	709	0	0	0	0	3,774,266	0	0	0	0
Exit to Century Blvd/Sepulveda Blvd	1,534	1,769	1,765	1,765	1,765	8,166,043	9,417,033	9,395,740	9,395,740	9,395,740
To Recirculation Rd & Lower Level	955	1,036	960	960	899	5,083,814	5,515,007	5,110,431	5,110,431	4,785,706

**Table 29**  
**GTC-ITC Traffic Volumes (Alternative 3)**

<i>Link</i>	<i>Link Speed mph</i>	<i>Total (both directions) Vehicles/Yr</i>	<i>Peak Month Vehicles/Mo</i>	<i>Pk Mo/ Avg Week Day Veh/day</i>	<i>One or Two- Way Road</i>
GTC/ITC Main	30	30,000,000	2,654,867	91,098	2-way
GTC Loop South	25	5,000,000	442,478	15,183	1-way
GTC Loop Middle	25	10,000,000	884,956	30,366	1-way
GTC Loop North	25	15,000,000	1,327,434	45,549	1-way
GTC Loop East	25	8,333,333	737,463	25,305	1-way
GTC Loop West	25	18,333,333	1,622,419	55,671	1-way
Surface Lot Road	35	5,500,000	486,726	16,701	2-way

<b>GTC/ITC</b>	<b>Cars</b>	<b>Buses</b>	<b>Trucks</b>	<b>Total</b>
%TRIP	95.29%	4.71%	0.00%	100.00%

**Table 30  
Cargo Road Trips**

**Daily Vehicle Trips (trips per day)**

Location Name	Baseline			Alt 1/2			Alt 3			Alt 4			Alt 8/9		
	Car	Truck	Total	Car	Truck	Total	Car	Truck	Total	Car	Truck	Total	Car	Truck	Total
Aviation Boulevard and 104th Street (west leg)	2812	1117	3929	4815	1530	6344	4815	1530	6344	4815	1530	6344	4815	1530	6344
Aviation Boulevard and 111th Street (west leg)	3867	1535	5402	6733	2139	8871	6733	2139	8871	6733	2139	8871	6733	2139	8871
Century Boulevard and Avion Drive (south leg)	2997	1190	4188	5019	1594	6613	5019	1594	6613	5019	1594	6613	5019	1594	6613
Century Boulevard and Airport Boulevard (south leg)	1736	689	2425	3074	977	4051	3074	977	4051	3074	977	4051	3074	977	4051
Century Boulevard and Postal Road/International Road (south leg)	2956	1174	4130	5442	1729	7171	5442	1729	7171	5442	1729	7171	5442	1729	7171
Imperial Highway and Imperial Terminal (north leg)	1624	645	2269	2880	915	3794	2880	915	3794	2880	915	3794	2880	915	3794
Imperial Highway and California Street (north leg)	1861	739	2601	3295	1047	4342	3295	1047	4342	3295	1047	4342	3295	1047	4342
Imperial Highway and Hughes Way (north leg)	3072	1220	4291	5502	1748	7250	5502	1748	7250	5502	1748	7250	5502	1748	7250
Imperial Highway and unsignalized driveway e/o Hughes Way (north leg)	2120	842	2962	4192	1332	5523	4192	1332	5523	4192	1332	5523	4192	1332	5523
Imperial Highway and Kilroy Center Drive (north leg)	348	138	486	616	196	811	616	196	811	616	196	811	616	196	811
Imperial Highway and Douglas Street (north leg)	2673	1061	3734	4752	1510	6262	4752	1510	6262	4752	1510	6262	4752	1510	6262
Imperial Highway and unsignalized driveway w/o Aviation Blvd. (north leg)	720	286	1006	1346	428	1773	1346	428	1773	1346	428	1773	1346	428	1773

**Annual Vehicle Trips (trips per year)**

Location Name	Baseline			Alt 1/2			Alt 3			Alt 4			Alt 8/9		
	Car	Truck	Total	Car	Truck	Total	Car	Truck	Total	Car	Truck	Total	Car	Truck	Total
Aviation Boulevard and 104th Street (west leg)	941,444	373,853	1,315,298	1,611,922	512,094	2,124,017	1,611,922	512,094	2,124,017	1,611,922	512,094	2,124,017	1,611,922	512,094	2,124,017
Aviation Boulevard and 111th Street (west leg)	1,294,527	514,065	1,808,592	2,254,076	716,101	2,970,177	2,254,076	716,101	2,970,177	2,254,076	716,101	2,970,177	2,254,076	716,101	2,970,177
Century Boulevard and Avion Drive (south leg)	1,003,525	398,506	1,402,031	1,680,354	533,835	2,214,189	1,680,354	533,835	2,214,189	1,680,354	533,835	2,214,189	1,680,354	533,835	2,214,189
Century Boulevard and Airport Boulevard (south leg)	581,216	230,804	812,020	1,029,286	326,995	1,356,281	1,029,286	326,995	1,356,281	1,029,286	326,995	1,356,281	1,029,286	326,995	1,356,281
Century Boulevard and Postal Road/International Road (south leg)	989,820	393,064	1,382,884	1,821,980	578,828	2,400,808	1,821,980	578,828	2,400,808	1,821,980	578,828	2,400,808	1,821,980	578,828	2,400,808
Imperial Highway and Imperial Terminal (north leg)	543,817	215,953	759,770	964,069	306,277	1,270,345	964,069	306,277	1,270,345	964,069	306,277	1,270,345	964,069	306,277	1,270,345
Imperial Highway and California Street (north leg)	623,215	247,483	870,698	1,103,313	350,513	1,453,827	1,103,313	350,513	1,453,827	1,103,313	350,513	1,453,827	1,103,313	350,513	1,453,827
Imperial Highway and Hughes Way (north leg)	1,028,393	408,381	1,436,774	1,842,058	585,207	2,427,265	1,842,058	585,207	2,427,265	1,842,058	585,207	2,427,265	1,842,058	585,207	2,427,265
Imperial Highway and unsignalized driveway e/o Hughes Way (north leg)	709,876	281,896	991,772	1,403,408	445,851	1,849,260	1,403,408	445,851	1,849,260	1,403,408	445,851	1,849,260	1,403,408	445,851	1,849,260
Imperial Highway and Kilroy Center Drive (north leg)	116,526	46,273	162,799	206,077	65,469	271,545	206,077	65,469	271,545	206,077	65,469	271,545	206,077	65,469	271,545
Imperial Highway and Douglas Street (north leg)	894,807	355,333	1,250,140	1,590,959	505,434	2,096,393	1,590,959	505,434	2,096,393	1,590,959	505,434	2,096,393	1,590,959	505,434	2,096,393
Imperial Highway and unsignalized driveway w/o Aviation Blvd. (north leg)	241,095	95,740	336,836	450,571	143,143	593,713	450,571	143,143	593,713	450,571	143,143	593,713	450,571	143,143	593,713



**Table 31**  
**Emission Factors by Speed**  
**Baseline (2009)**

Speed	grams per mile		
	CO2		
	Car	MHDT	HHDT
5	1204.020364	2582.862622	4031.938487
10	893.612847	2121.504295	3330.696283
15	687.717913	1663.972675	2734.790369
20	549.571042	1295.047170	2157.314175
25	456.040286	1169.058224	2012.974796
30	392.286308	1079.987051	1889.481234
35	349.999645	1010.012167	1786.996888
40	325.300834	959.675288	1705.521759
45	314.305441	929.536712	1645.055846
50	313.496700	913.451676	1605.599149
55	324.054363	916.201983	1587.151668
60	344.695858	944.650435	1589.713403
65	383.551574	971.010381	1613.284354

**Table 32**  
**Emission Factors by Speed**  
**Future Conditions (2025)**

Speed	grams per mile		
	CO2		
	Car	MHDT	HHDT
5	802.676866	2294.010144	3564.521053
10	596.127136	1885.555142	2944.572954
15	458.919397	1484.514285	2417.749645
20	366.749195	1154.373890	1906.824178
25	304.279120	1044.765224	1779.613221
30	261.693123	966.867808	1670.436109
35	233.514858	905.825736	1579.832641
40	217.166692	861.803917	1507.802819
45	209.467616	831.159082	1454.346641
50	209.305188	817.380452	1419.464108
55	215.864203	819.720185	1403.155220
60	229.811543	839.395337	1405.419976
65	255.805065	868.277030	1426.258378

**LAX SPAS**

**Preliminary Total Emission Estimates**

**Parking Lot Emissions**

**Table 33**

Alternative	<b>Total Emissions, short tons per year</b>						
	CO	VOC	NOx	SOx	PM-10	PM-2.5	CO2
Baseline	521.67	80.38	266.17	-	22.37	13.37	115,455.28
Alts 1&2	195.67	27.16	67.57	-	17.31	6.72	114,798.88
Alt 3	195.48	11.00	19.17	-	31.11	8.82	107,465.94
Alt 4	192.29	24.13	59.37	-	21.31	7.32	111,986.46
Alts 8&9	182.58	17.71	39.73	-	17.69	6.61	104,857.06

CO (g/veh) VOC (g/veh) NOx (g/veh) SOx (g/veh) PM-10 (g/ve) PM-2.5 (g/vr) THC (g/veh) [THC column is used for CO2 ei

**Table 34**

Alternative	<b>Incremental Emissions (Relative to Baseline), short tons per year</b>						
	CO	VOC	NOx	SOx	PM-10	PM-2.5	CO2
Baseline	-	-	-	-	-	-	-
Alts 1&2	(326.00)	(53.21)	(198.61)	-	(5.06)	(6.65)	(656.40)
Alt 3	(326.20)	(69.37)	(247.00)	-	8.74	(4.55)	(7,989.34)
Alt 4	(329.38)	(56.25)	(206.80)	-	(1.06)	(6.05)	(3,468.82)
Alts 8&9	(339.09)	(62.67)	(226.44)	-	(4.68)	(6.76)	(10,598.22)

**Table 35**

Alternative	<b>Incremental Emissions (Relative to Alt 4), short tons per year</b>						
	CO	VOC	NOx	SOx	PM-10	PM-2.5	CO2
Baseline	NA	NA	NA	NA	NA	NA	NA
Alts 1&2	3.38	3.03	8.19	-	(4.00)	(0.59)	2,812.42
Alt 3	3.19	(13.13)	(40.21)	-	9.80	1.50	(4,520.52)
Alt 4	-	-	-	-	-	-	-
Alts 8&9	(9.70)	(6.42)	(19.64)	-	(3.62)	(0.71)	(7,129.40)

**LAX SPAS**  
**Preliminary Total Emission Estimates**  
**Parking Lot Emissions**

**Table 36**

Alternative	<b>Peak Daily Emissions, pounds per day</b>						
	CO	VOC	NOx	SOx	PM-10	PM-2.5	CO2
Baseline	3,124.83	481.46	1,594.38	-	134.00	80.09	691,580.69
Alts 1&2	1,172.06	162.71	404.73	-	103.67	40.27	687,648.83
Alt 3	1,170.91	65.92	114.81	-	186.37	52.84	643,724.30
Alt 4	1,151.81	144.54	355.64	-	127.64	43.83	670,802.33
Alts 8&9	1,093.68	106.09	238.01	-	105.97	39.59	628,097.03

CO (g/veh) VOC (g/veh) NOx (g/veh) SOx (g/veh) PM-10 (g/ve) PM-2.5 (g/vr) THC (g/veh) [THC column is used for CO2 ei

**Table 37**

Alternative	<b>Incremental Daily Emissions (Relative to Baseline), pounds per day</b>						
	CO	VOC	NOx	SOx	PM-10	PM-2.5	CO2
Baseline	-	-	-	-	-	-	-
Alts 1&2	(1,952.76)	(318.75)	(1,189.65)	-	(30.33)	(39.83)	(3,931.86)
Alt 3	(1,953.92)	(415.54)	(1,479.57)	-	52.37	(27.25)	(47,856.39)
Alt 4	(1,973.02)	(336.92)	(1,238.73)	-	(6.36)	(36.27)	(20,778.36)
Alts 8&9	(2,031.15)	(375.37)	(1,356.37)	-	(28.03)	(40.51)	(63,483.66)

**Table 38**

Alternative	<b>Incremental Emissions (Relative to Alt 4), pounds per day</b>						
	CO	VOC	NOx	SOx	PM-10	PM-2.5	CO2
Baseline	NA	NA	NA	NA	NA	NA	NA
Alts 1&2	20.25	18.17	49.08	-	(23.97)	(3.56)	16,846.50
Alt 3	19.10	(78.62)	(240.83)	-	58.73	9.01	(27,078.02)
Alt 4	-	-	-	-	-	-	-
Alts 8&9	(58.13)	(38.45)	(117.63)	-	(21.67)	(4.24)	(42,705.30)
	550	55	55	150	150	55	

Note: PM10 and PM2.5 emissions include paved road dust, tire wear, and brake wear in addition to running exhaust emissions.

## **Parking Volumes**

**Table 39**

<b>Baseline Location Name</b>	<b>Annual Volume (vehicle/year)</b>		
	<b>Car</b>	<b>Truck</b>	<b>Total</b>
Lot C - 96th Street public/shuttle entrance	444,535	32,764	477,299
Lot C - 96th Street shuttle exit	117,267	8,643	125,909
Lot C - exit driveway on Jenny Street	412,664	30,415	443,078
Lot C - entrance driveway on Westchester Parkway	137,616	10,143	147,759
Lot E	3,070,011	226,269	3,296,281
Airport Police	320,680	23,635	344,315
World Way West	2,477,006	182,563	2,659,569
CTA	49,773,616	3,154,791	52,928,407
Advantage	232,206	45,724	277,930
Alamo/National	944,655	186,015	1,130,670
Avis	1,487,411	292,891	1,780,301
Budget	837,589	164,932	1,002,521
Dollar	742,788	146,265	889,053
Enterprise	797,714	157,080	954,794
Fox/Payless	129,581	25,516	155,097
Hertz	1,713,910	337,491	2,051,401
Thrifty	478,789	94,280	573,069
The Parking Spot	447,551	254,382	701,933
Park One	444,016	252,373	696,389
Valet Air/Park	196,444	121,727	335,889
Wally Park	405,850	251,485	693,940
Westchester Parking Spot	408,177	252,927	697,919

## Parking Volumes

**Table 40**

Alts 1/2 Location Name	Annual Volume (vehicle/year)		
	Car	Truck	Total
Lot C - 96th Street public/shuttle entrance	854,521	19,863	874,385
Lot C - 96th Street shuttle exit	0	0	0
Lot C - exit driveway on Jenny Street	728,072	16,924	744,995
Lot C - entrance driveway on Westchester Parkway	251,760	5,852	257,612
Manchester Square	5,542,498	128,834	5,671,332
Airport Police	363,577	8,451	372,028
World Way West	2,751,527	63,959	2,815,486
CTA	67,183,457	3,644,333	70,827,790
Advantage	394,661	61,334	455,995
Alamo/National	1,621,013	251,920	1,872,933
Avis	2,513,293	390,588	2,903,881
Budget/Dollar (Relocated to Lot E)	1,796,297	279,160	2,075,457
Lot D Employee Parking	5,051,862	117,430	5,169,291
Enterprise	1,360,390	211,416	1,571,806
Fox/Payless	225,397	35,029	260,425
Hertz	2,875,149	446,823	3,321,972
Thrifty (Relocated to Lot E)	825,309	128,260	953,569
The Parking Spot	431,732	286,598	718,330
98th Street Intermodal Transportation Facility (Park One Goes Away)	1,530,665	35,580	1,566,245
Valet Air/Park	207,701	137,879	345,579
Wally Park	425,666	282,571	708,238
Westchester Parking Spot	439,868	291,999	731,867

## Parking Volumes

**Table 41**

Alt 3 Location Name	Annual Volume (vehicle/year)		
	Car	Truck	Total
Avion Drive and Century Employee Parking Lot (Lot C Becomes ConRac)	730,048	18	730,066
Avion Drive and Century Employee Parking Lot (Lot C Becomes ConRac)	0	0	0
Avion Drive and Century Employee Parking Lot (Lot C Becomes ConRac)	0	0	0
Avion Drive and Century Employee Parking Lot (Lot C Becomes ConRac)	0	0	0
Manchester Square (Ground Transportation Center)	69,332,839	1,712	69,334,550
Airport Police	344,152	8	344,161
World Way West/West Employee Parking Lot	10,216,033	252	10,216,285
CTA	112,791	1,446,384	1,559,175
Advantage	322,687	40	322,728
Alamo/National	1,402,090	175	1,402,265
Avis	2,411,745	301	2,412,046
Budget/Dollar (Relocated to Lot E)	2,514,601	314	2,514,915
Intermodal Transportation Center at Aviation and Imperial	925,712	23	925,735
Enterprise	1,275,776	159	1,275,935
Fox/Payless	255,550	32	255,582
Hertz	2,683,958	335	2,684,292
Thrifty (Relocated to Lot E)	737,573	92	737,665
The Parking Spot	447,001	296,734	743,735
Lot B (Park One Goes Away)	552,467	14	552,481
Valet Air/Park	215,046	142,755	357,801
Wally Park	440,720	292,565	733,285
Westchester Parking Spot	455,425	302,326	757,750

## Parking Volumes

**Table 42**

Alt 4 Location Name	Annual Volume (vehicle/year)		
	Car	Truck	Total
Lot C - 96th Street public/shuttle entrance	0	0	0
Lot C - 96th Street shuttle exit	0	0	0
Lot C - exit driveway on Jenny Street	0	0	0
Lot C - entrance driveway on Westchester Parkway	0	0	0
Lot E	9,300,317	379,903	9,680,220
Airport Police	0	0	0
World Way West	2,748,387	112,267	2,860,654
CTA	67,289,449	2,978,702	70,268,151
Advantage	343,233	27,845	371,077
Alamo/National	1,450,515	117,673	1,568,188
Avis	2,374,786	192,654	2,567,440
Budget	1,328,515	107,775	1,436,291
Dollar (Relocated to Lot E)	1,172,435	95,113	1,267,549
Enterprise	1,268,313	102,891	1,371,204
Fox/Payless	234,211	19,000	253,212
Hertz	2,680,665	217,468	2,898,133
Thrifty (Relocated to Lot E)	751,307	60,950	812,256
The Parking Spot	726,937	411,689	1,138,626
Continental City Property (Park One Goes Away)	2,503,229	102,253	2,605,482
Valet Air/Park	341,015	193,128	534,144
Wally Park	701,160	397,090	1,098,251
Westchester Parking Spot	741,304	419,826	1,161,130



## Parking Volumes

**Table 43**

Alts 8/9 Location Name	Annual Volume (vehicle/year)		
	Car	Truck	Total
Lot C - 96th Street public/shuttle entrance	848,219	25,596	873,815
Lot C - 96th Street shuttle exit	0	0	0
Lot C - exit driveway on Jenny Street	722,702	21,808	744,510
Lot C - entrance driveway on Westchester Parkway	249,903	7,541	257,444
Manchester Square	1,594,025	48,102	1,642,127
Airport Police	360,895	10,890	371,786
World Way West	2,731,234	82,418	2,813,652
CTA	64,858,245	1,959,398	66,817,642
Advantage	322,687	40	322,728
Alamo/National	1,402,090	175	1,402,265
Avis (Relocated to Lot E)	2,411,745	301	2,412,046
Budget/Dollar (Relocated to Lot E)	2,514,601	314	2,514,915
Lot D Employee Parking	9,041,374	272,835	9,314,209
Enterprise	1,275,776	159	1,275,935
Fox/Payless	255,550	32	255,582
Hertz	2,683,958	335	2,684,292
Thrifty (Relocated to Lot E)	737,573	92	737,665
98th Street Intermodal Transportation Facility (Park One Goes Away)	1,519,376	45,849	1,565,225



**Parking Lot Emission Factors  
Baseline (2010)**

**Table 44  
EDMS Emission Factor (Idle + Running)**

Lot	Criteria Pollutant Emission Factor (grams per vehicle)															Start Up + Road Dust + Tire & Brake Wear (g/veh)				
	Cars							Trucks								Cars		Trucks		
	ROG	TOG	CO	NOx	CO2	PM-10	PM-2.5	SOx	ROG	TOG	CO	NOx	CO2	PM-10	PM-2.5	SOx	PM10	PM2.5	PM10	PM2.5
Employee Parking	0.447883	0.592645	5.742757	0.469374	1185.003080	0.021329	0.019463	0.000000	7.540949	8.584796	13.273972	37.063809	4058.636615	1.444204	1.328667	0.000000	0.117071532	0.042454841	0.097916498	0.01897416
P-1	0.471945	0.624223	6.111815	0.500476	1254.463087	0.022454	0.020488	0.000000	7.904033	8.998140	14.011301	39.163326	4318.720941	1.527014	1.404853	0.000000	0.149470517	0.048178164	0.134298701	0.026024266
P-2	0.514545	0.680129	6.765199	0.555541	1377.435842	0.024444	0.022303	0.000000	8.546842	9.729930	15.316676	42.880334	4779.177071	1.673622	1.539732	0.000000	0.206830034	0.058310798	0.198710149	0.038505851
P-3	0.451640	0.597575	5.800378	0.474230	1195.847938	0.021505	0.019623	0.000000	7.597638	8.649332	13.389092	37.391608	4099.243833	1.457133	1.340562	0.000000	0.122130017	0.043348429	0.103596887	0.020074899
P-4	0.454150	0.600869	5.838876	0.477474	1203.093576	0.021622	0.019730	0.000000	7.635512	8.692450	13.466005	37.610617	4126.374220	1.465771	1.348509	0.000000	0.125509679	0.04394545	0.107392053	0.020810323
P-5	0.438945	0.580916	5.605680	0.457821	1159.203986	0.020912	0.019083	0.000000	7.406091	8.431270	13.000110	36.283998	3962.035129	1.413446	1.300370	0.000000	0.105037781	0.040329062	0.084403286	0.016355583
P-6	0.457038	0.604659	5.883174	0.481207	1211.430937	0.021757	0.019853	0.000000	7.679094	8.742064	13.554508	37.862624	4157.592426	1.475711	1.357654	0.000000	0.129398564	0.044632427	0.111759049	0.021656555
P-7	0.502353	0.664128	6.578198	0.539781	1342.240627	0.023874	0.021784	0.000000	8.362868	9.520489	14.943073	41.816514	4647.392982	1.631662	1.501129	0.000000	0.190413548	0.055410804	0.180275377	0.034933579
Parking-A	0.460140	0.608731	5.930756	0.485217	1220.386226	0.021902	0.019986	0.000000	7.725905	8.795355	13.649569	38.133309	4191.124389	1.486387	1.367476	0.000000	0.133575677	0.045370319	0.116449707	0.022565506
Parking-B	0.536416	0.708831	7.100641	0.583811	1440.569193	0.025466	0.023234	0.000000	8.876856	10.105625	15.986466	44.788620	5015.572025	1.748890	1.608979	0.000000	0.236278008	0.063512822	0.231778536	0.044913809
Parking-C	0.516494	0.682687	6.795093	0.558061	1383.062183	0.024535	0.022386	0.000000	8.576253	9.763411	15.376400	43.050397	4800.244205	1.680330	1.545904	0.000000	0.209454389	0.058774394	0.20165715	0.039076918
World Way West Admin	0.419470	0.555357	5.306975	0.432648	1102.985075	0.020002	0.018253	0.000000	7.112220	8.096722	12.403338	34.584710	3751.530432	1.346422	1.238708	0.000000	0.078814984	0.035696771	0.054956588	0.010649432
Advantage	0.416250	0.551132	5.257592	0.428486	1093.690763	0.019851	0.018116	0.000000	7.063637	8.041413	12.304677	34.303777	3716.729045	1.335341	1.228514	0.000000	0.074479738	0.034930944	0.050088355	0.009706071
Alamo-National	0.412372	0.546043	5.198113	0.423473	1082.496271	0.019670	0.017951	0.000000	7.005120	7.974796	12.185846	33.965410	3674.812664	1.321995	1.216235	0.000000	0.069258169	0.034008547	0.044224833	0.008569843
Avis	0.477791	0.631895	6.201477	0.508033	1271.338362	0.022727	0.020737	0.000000	7.992245	9.098562	14.190434	39.673402	4381.908301	1.547133	1.423362	0.000000	0.157341835	0.049568643	0.143137739	0.027737086
Budget	0.435022	0.575767	5.545509	0.452750	1147.879311	0.020729	0.018916	0.000000	7.346894	8.363879	12.879897	35.941695	3919.631298	1.399945	1.287949	0.000000	0.09975549	0.039395939	0.078471576	0.015206142
Dollar	0.422198	0.558938	5.348821	0.436174	1110.860772	0.020129	0.018369	0.000000	7.153389	8.143588	12.486940	34.822763	3781.019998	1.355811	1.247346	0.000000	0.082488531	0.036345708	0.059081771	0.011448805
Enterprise	0.432764	0.572804	5.510875	0.449831	1141.360768	0.020623	0.018819	0.000000	7.312820	8.325089	12.810702	35.744664	3895.223426	1.392173	1.280799	0.000000	0.096714975	0.038858828	0.075057252	0.014544518
Fox-Payless	0.414551	0.548902	5.231533	0.426290	1088.786170	0.019772	0.018044	0.000000	7.037999	8.012226	12.252614	34.155530	3698.364406	1.329494	1.223134	0.000000	0.072192035	0.034526818	0.047519396	0.00920826
Hertz	0.439707	0.581915	5.617358	0.458806	1161.401955	0.020947	0.019115	0.000000	7.417580	8.444350	13.023442	36.350434	3970.265149	1.416066	1.302781	0.000000	0.106063004	0.040510169	0.085554552	0.016578674
Thrifty	0.417365	0.552594	5.274682	0.429926	1096.907147	0.019903	0.018164	0.000000	7.080450	8.060553	12.338820	34.400997	3728.772392	1.339175	1.232041	0.000000	0.075979991	0.035195965	0.051773053	0.01003253

**Table 45  
EMFAC Emission Factors**

Mode	Speed (mph)	Criteria Pollutant Emission Factors (g/mi)															Road Dust + Tire & Brake Wear (g/mi)				
		Cars							Trucks								Cars		Trucks		
		ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	PM10	PM2.5	PM10	PM2.5
Idle	5	0.459748006	0.609188808	5.699400487	0.46279885	1197.675968	0.021964398	0.020046056	0	7.87652205	8.966820783	13.54749222	37.69597893	4030.396765	1.465600377	1.348352346	0				
Running	10	0.30802828	0.404242125	4.724427762	0.39815699	889.179782	0.014391773	0.013120327	0	4.647962647	5.291351665	9.438782668	26.87659154	3329.4227	1.060081687	0.975275152	0	4.15E-01	7.33E-02	0.465740219	0.090250666
Idle Emission Factor (g/veh)		0.383123338	0.50765734	4.749500406	0.385665708	998.0633069	0.018303665	0.016705047	0	6.563768375	7.472350652	11.28957685	31.41331578	3358.663971	1.221333647	1.123626955	0				

Note:  
Emission factors are weighted average of gasoline and diesel light-duty vehicles (LDA, LDT1, and LDT2) at given speed.  
CO2 emission factors assume that the Pavley I and low carbon fuel standards are in place.  
HAPs emissions from diesel fueled cars and trucks are zero because there is no speciation profile for diesel exhaust.  
Idle Time 10 minutes

**Table 46  
EDMS Running Emission Factor**

Lot	Perimeter		Criteria Pollutant Emission Factors (g/veh)															Road Dust + Tire & Brake Wear (g/veh)				
	(m)	(mi)	Cars							Trucks								Cars		Trucks		
			ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	PM10	PM2.5	PM10	PM2.5
Employee Parking	338	0.210238	0.064759	0.084987	0.993256	0.083708	186.939773	0.003026	0.002758	0	0.977180	1.112446	1.984395	5.650493	699.972644	0.222870	0.205040	0	8.72E-02	1.54E-02	0.097916498	0.01897416
P-1	464	0.288355	0.088822	0.116565	1.362314	0.114811	256.399780	0.004150	0.003783	0	1.340265	1.525790	2.721724	7.750010	960.056970	0.305680	0.281226	0	1.20E-01	2.11E-02	0.134298701	0.026024266
P-2	687	0.426654	0.131422	0.172472	2.015698	0.169875	379.372535	0.006140	0.005598	0	1.983074	2.257579	4.027099	11.467018	1420.513101	0.452289	0.416106	0	1.77E-01	3.13E-02	0.198710149	0.038505851
P-3	358	0.222435	0.068516	0.089918	1.050878	0.088564	197.784631	0.003201	0.002918	0	1.033869	1.176981	2.099515	5.978292	740.579862	0.235799	0.216935	0	9.23E-02	1.63E-02	0.103596887	0.020074899
P-4	371	0.230584	0.071026	0.093212	1.089376	0.091808	205.030269	0.003319	0.003025	0	1.071744	1.220099	2.176428	6.197301	767.710250	0.244437	0.224882	0	9.56E-02	1.69E-02	0.107392053	0.020810323
P-5	292	0.181224	0.055822	0.073258	0.856179	0.072156	161.140679	0.002608	0.002378	0	0.842322	0.958920	1.710534	4.870682	603.371159	0.192112	0.176743	0	7.52E-02	1.33E-02	0.084403286	0.016355583
P-6	386	0.239960	0.073914	0.097002	1.133674	0.095542	213.367630	0.003453	0.003148	0	1.115325	1.269713	2.264931	6.449308	798.928455	0.254377	0.234027	0	9.95E-02	1.76E-02	0.111759049	0.021656555
P-7	623	0.387073	0.119229	0.156471	1.828698	0.154116	344.177320	0.005571	0.005079	0	1.799100	2.048138	3.653496	10.403198	1288.729012	0.410329	0.377502	0	1.61E-01	2.84E-02	0.180275377	0.034933579
Parking-A	402	0.250031	0.077017	0.101073	1.181256	0.099552	222.322919	0.003598	0.003280	0	1.162137	1.323004	2.359993	6.719993	832.460419	0.265054	0.243849	0	1.04E-01	1.83E-02	0.116449707	0.022565506
Parking-B	801	0.497656	0.153292	0.201174	2.351141	0.198145	442.505886	0.007162	0.006529	0	2.313088	2.633274	4.697269	13.375304	1656.908054	0.527556	0.485352	0	2.06E-01	3.65E-02	0.231778536	0.044913809
Parking-C	697	0.432982	0.133371	0.175030	2.045592	0.172395	384.998876	0.006231	0.005681	0	2.012484	2.291060	4.086823	11.637081	1441.580235	0.458996	0.422277	0	1.80E-01	3.17E-02	0.20165715	0.039076918
World Way West Admin	190	0.117998	0.036347	0.047700	0.557475	0.046982	104.921768	0.001698	0.001548	0	0.548452	0.624371	1.113761	3.171394	392.866462	0.125088	0.115081	0	4.89E-02	8.65E-03	0.054956588	0.010649432
Advantage	173	0.107546	0.033127	0.043474	0.508092	0.042820	95.627457	0.001548	0.001411	0	0.499868	0.569062	1.015100	2.890462	358.065074	0.114007	0.104887	0	4.46E-02	7.88E-03	0.050088355	0.009706071
Alamo-National	153	0.094956	0.029249	0.038385	0.448613	0.037807	84.432964	0.001367	0.001246	0	0.441352	0.502446	0.896269	2.552094	316.148693	0.100661	0.092608	0	3.94E-02	6.9		

**Parking Lot Emission Factors**  
**Alternatives 1 and 2 (2025)**

**Table 47**  
**EDMS Emission Factor (Idle + Running)**

Lot	Criteria Pollutant Emission Factor (grams per vehicle)															Start Up + Road Dust + Tire & Brake Wear (g/veh)				
	Cars							Trucks								Cars		Trucks		
	ROG	TOG	CO	NOx	CO2	PM-10	PM-2.5	SOx	ROG	TOG	CO	NOx	CO2	PM-10	PM-2.5	SOx	PM10	PM2.5	PM10	PM2.5
Employee Parking	0.083560	0.141815	1.387644	0.137315	794.226229	0.012461	0.011561	0.000000	2.644828	3.010935	5.318292	7.654541	3589.496644	0.089594	0.082427	0.000000	0.114183938	0.040443382	0.097953753	0.018987676
P-1	0.087887	0.149126	1.483157	0.146377	840.793859	0.013099	0.012153	0.000000	2.770610	3.154129	5.586884	8.105821	3819.517684	0.095792	0.088129	0.000000	0.146582923	0.046166705	0.134349798	0.026042804
P-2	0.095547	0.162068	1.652255	0.162422	923.237700	0.014229	0.013202	0.000000	2.993297	3.407641	6.062402	8.904774	4226.749444	0.106766	0.098224	0.000000	0.203942439	0.056299339	0.198785754	0.03853328
P-3	0.084236	0.142956	1.402557	0.138729	801.496878	0.012561	0.011654	0.000000	2.664466	3.033292	5.360228	7.724999	3625.410052	0.090562	0.083317	0.000000	0.119242423	0.041336971	0.103636303	0.0200892
P-4	0.084687	0.143719	1.412520	0.139675	806.354525	0.012627	0.011716	0.000000	2.677587	3.048229	5.388246	7.772074	3649.404423	0.091208	0.083912	0.000000	0.122622084	0.041933991	0.107432913	0.020825147
P-5	0.081953	0.139100	1.352168	0.133948	776.929907	0.012224	0.011342	0.000000	2.598109	2.957750	5.218531	7.486924	3504.061375	0.087292	0.080309	0.000000	0.102150187	0.038317604	0.084435399	0.016367234
P-6	0.085207	0.144597	1.423985	0.140763	811.944089	0.012704	0.011787	0.000000	2.692685	3.065417	5.420485	7.826242	3677.014100	0.091952	0.084596	0.000000	0.12651097	0.042620968	0.11180157	0.021671982
P-7	0.093355	0.158364	1.603858	0.157830	899.641996	0.013906	0.012902	0.000000	2.929563	3.335085	5.926307	8.676111	4110.198348	0.103625	0.095335	0.000000	0.187525953	0.053399345	0.180343967	0.034958464
ITF	0.127608	0.216240	2.360018	0.229577	1268.309203	0.018957	0.017589	0.000000	3.925359	4.468723	8.052697	12.248817	5931.231850	0.152695	0.140479	0.000000	0.444022647	0.098709825	0.468484641	0.090812594
Airport Police	0.083793	0.142209	1.392788	0.137803	796.733927	0.012495	0.011593	0.000000	2.651601	3.018646	5.332756	7.678842	3601.883429	0.089928	0.082734	0.000000	0.115928645	0.040751586	0.099913705	0.019367599
Parking-B	0.099480	0.168713	1.739068	0.170659	965.563790	0.014809	0.013740	0.000000	3.107623	3.537792	6.306529	9.314951	4435.819379	0.112399	0.103407	0.000000	0.233390413	0.061501363	0.231866722	0.044945803
Parking-C	0.095897	0.162660	1.659991	0.163156	927.009732	0.014281	0.013250	0.000000	3.003485	3.419240	6.084158	8.941328	4245.381417	0.107268	0.098686	0.000000	0.206566794	0.056762935	0.201733876	0.039104754
Lot D	0.085092	0.144402	1.421445	0.140522	810.705861	0.012687	0.011771	0.000000	2.689340	3.061609	5.413343	7.814243	3670.897867	0.091788	0.084445	0.000000	0.125649485	0.042468786	0.110833804	0.021484387
Manchester Square	0.101346	0.171866	1.780265	0.174568	985.649184	0.015084	0.013995	0.000000	3.161875	3.599554	6.422377	9.509596	4535.031281	0.115073	0.105867	0.000000	0.247364634	0.063969927	0.247564942	0.047988797
World Way West Admin	0.078452	0.133183	1.274863	0.126613	739.239420	0.011708	0.010862	0.000000	2.496305	2.841853	5.001141	7.121671	3317.889029	0.082275	0.075693	0.000000	0.07592739	0.033685312	0.054977498	0.010657018
Advantage	0.077873	0.132205	1.262082	0.125401	733.008295	0.011622	0.010783	0.000000	2.479474	2.822692	4.965201	7.061286	3287.110352	0.081446	0.074930	0.000000	0.071592144	0.032919485	0.050107412	0.009712985
Alamo-National	0.077175	0.131026	1.246689	0.123940	725.503242	0.011519	0.010688	0.000000	2.459202	2.799614	4.921914	6.988555	3250.039108	0.080447	0.074011	0.000000	0.066370575	0.031997088	0.044241659	0.008575948
Avis	0.088938	0.150902	1.506362	0.148579	852.107442	0.013254	0.012297	0.000000	2.801169	3.188918	5.652138	8.215460	3875.401183	0.097298	0.089514	0.000000	0.15445424	0.047557184	0.1431922	0.027756844
Budget/Dollar	0.078942	0.134012	1.285693	0.127641	744.519474	0.011780	0.010929	0.000000	2.510566	2.858089	5.031595	7.172839	3343.969879	0.082978	0.076340	0.000000	0.079600937	0.034334249	0.05910425	0.011456961
Enterprise	0.080842	0.137222	1.327632	0.131620	764.967392	0.012060	0.011189	0.000000	2.565798	2.920965	5.149534	7.370997	3444.972472	0.085700	0.078844	0.000000	0.093827381	0.036847369	0.075085809	0.014554879
Fox-Payless	0.077567	0.131688	1.255338	0.124761	729.720139	0.011577	0.010741	0.000000	2.470592	2.812581	4.946236	7.029420	3270.868491	0.081008	0.074528	0.000000	0.069304441	0.032515359	0.047537476	0.00921482
Hertz	0.082090	0.139331	1.355191	0.134235	778.403477	0.012244	0.011360	0.000000	2.602089	2.962281	5.227030	7.501204	3511.340083	0.087488	0.080489	0.000000	0.103175409	0.038498711	0.085587103	0.016590484
Thrifty	0.078073	0.132543	1.266505	0.125820	735.164634	0.011652	0.010811	0.000000	2.485298	2.829323	4.977638	7.082182	3297.761602	0.081733	0.075194	0.000000	0.073092396	0.033184507	0.051792751	0.010039676

**Table 48**  
**EMFAC Emission Factors**

Mode	Speed (mph)	Criteria Pollutant Emission Factors (g/mi)															Road Dust + Tire & Brake Wear (g/mi)				
		Cars							Trucks								Cars		Trucks		
		ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	PM10	PM2.5	PM10	PM2.5
Idle	5	0.086299179	0.146567916	1.356704362	0.135508901	802.6786658	0.012892487	0.011961659	0	2.767566876	3.150664218	5.514508458	7.727994046	3564.521053	0.087495276	0.080495654	0				
Running	10	0.055386661	0.093584844	1.222693663	0.116013214	596.1271363	0.008168702	0.007578824	0	1.610181504	1.833069073	3.438327545	5.776990712	2944.572954	0.079344945	0.072997349	0	0.414749772	0.073266094	0.465917422	0.090314955
Idle Emission Factor		0.071915982	0.12213993	1.130586969	0.112924084	668.8973882	0.010743739	0.009968049	0	2.30630573	2.625553515	4.595423715	6.439995039	2970.434211	0.07291273	0.067079711	0				

Note:  
Emission factors are weighted average of gasoline and diesel light-duty vehicles (LDA, LDT1, and LDT2) at given speed.  
CO2 emission factors assume that the Pavley I and low carbon fuel standards are in place.  
HAPs emissions from diesel fueled cars and trucks are zero because there is no speciation profile for diesel exhaust.  
Idle Time 10 minutes

**Table 49**  
**EDMS Running Emission Factor**

Lot	Perimeter		Criteria Pollutant Emission Factors (g/veh)															Road Dust + Tire & Brake Wear (g/veh)				
	(m)	(mi)	Cars							Trucks								Cars		Trucks		
			ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	PM10	PM2.5	PM10	PM2.5
Employee Parking	338	0.210238	0.011644	0.019675	0.257057	0.024390	125.328841	0.001717	0.001593	0	0.338522	0.385382	0.722869	1.214546	619.062433	0.016681	0.015347	0	0.087196346	0.01540335	0.097953753	0.018987676
P-1	464	0.288355	0.015971	0.026986	0.352570	0.033453	171.896471	0.002355	0.002185	0	0.464305	0.528575	0.991460	1.665826	849.083473	0.022880	0.021049	0	0.119595331	0.021126673	0.134349798	0.026042804
P-2	687	0.426654	0.023631	0.039928	0.521668	0.049498	254.340312	0.003485	0.003234	0	0.686991	0.782087	1.466978	2.464779	1256.315234	0.033853	0.031145	0	0.176954847	0.031259307	0.198785754	0.03853328
P-3	358	0.222435	0.012320	0.020817	0.271970	0.025805	132.599490	0.001817	0.001686	0	0.358161	0.407739	0.764804	1.285004	654.975841	0.017649	0.016237	0	0.092254831	0.016296938	0.103636303	0.0200892
P-4	371	0.230584	0.012771	0.021579	0.281933	0.026751	137.457137	0.001884	0.001748	0	0.371281	0.422676	0.792822	1.332079	678.970213	0.018296	0.016832	0	0.095634493	0.016893959	0.107432913	0.020825147
P-5	292	0.181224	0.010037	0.016960	0.221581	0.021024	108.032519	0.001480	0.001373	0	0.291803	0.332196	0.623107	1.046929	533.627165	0.014379	0.013229	0	0.075162595	0.013277572	0.084435399	0.016367234
P-6	386	0.239960	0.013291	0.022457	0.293398	0.027839	143.046701	0.001960	0.001819	0	0.386379	0.439863	0.825061	1.386247	706.579889	0.019040	0.017516	0	0.099523378	0.017580936	0.11180157	0.021671982
P-7	623	0.387073	0.021439	0.036224	0.473271	0.044906	230.744608	0.003162	0.002934	0	0.623257	0.709531	1.330883	2.236116	1139.764138	0.030712	0.028255	0	0.160538361	0.028359313	0.180343967	0.034958464
ITF	1618	1.005510	0.055692	0.094100	1.229431	0.116652	599.411815	0.008214	0.007621	0	1.619054	1.843169	3.457273	5.808822	2960.797639	0.079782	0.073400	0	0.417035056	0.073669792	0.468484641	0.090812594
Airport Police	345	0.214445	0.011877	0.020069	0.262201	0.024878	127.836539	0.001752	0.001625	0	0.345296	0.393093	0.737332	1.238847	631.449219	0.017015	0.015654	0	0.088941053	0.015711554	0.099913705	0.019367599
Parking-B	801	0.497656	0.027564	0.046573	0.608481	0.057735	296.666402	0.004065	0.003772	0	0.801317	0.912238	1.711105	2.874956	1465.385168	0.039487	0.036328	0	0.206402821	0.036461331	0.231866722	0.044945803
Parking-C	697	0.432982	0.023981	0.040521	0.529404	0.050232	258.112344	0.003537	0.003281	0	0.697180	0										

**Parking Lot Emission Factors  
Alternative 3 (2025)**

**Table 50  
EDMS Emission Factor (Idle + Running)**

Lot	Criteria Pollutant Emission Factor (grams per vehicle)															Start Up + Road Dust + Tire & Brake Wear (g/veh)				
	Cars									Trucks						Cars		Trucks		
	ROG	TOG	CO	NOx	CO2	PM-10	PM-2.5	SOx		ROG	TOG	CO	NOx	CO2	PM-10	PM-2.5	SOx	PM10	PM2.5	PM10
Employee Parking	0.083560	0.141815	1.387644	0.137315	794.226229	0.012461	0.011561	0.000000	2.644828	3.010935	5.318292	7.654541	3589.496644	0.089594	0.082427	0.000000	0.1142123	0.040469697	0.097953753	0.018987676
ITC	0.116725	0.197852	2.119777	0.206782	1151.179319	0.017352	0.016100	0.000000	3.608983	4.108553	7.377118	11.113727	5352.668205	0.137105	0.126136	0.000000	0.362559009	0.084340471	0.376938978	0.073067083
Surface Lot	0.094707	0.160649	1.633711	0.160662	914.196849	0.014105	0.013087	0.000000	2.968877	3.379840	6.010256	8.817160	4182.092116	0.105562	0.097117	0.000000	0.197680715	0.055214503	0.191719661	0.037163565
West Employee	0.086771	0.147239	1.458512	0.144039	828.778233	0.012935	0.012001	0.000000	2.738155	3.117181	5.517581	7.989380	3760.166438	0.094193	0.086658	0.000000	0.138251527	0.044716258	0.124958698	0.024222402
World Way West Admin	0.078452	0.133183	1.274863	0.126613	739.239420	0.011708	0.010862	0.000000	2.496305	2.841853	5.001141	7.121671	3317.889029	0.082275	0.075693	0.000000	0.075955752	0.033711627	0.054977498	0.010657018
GTC	0.109773	0.186106	1.966308	0.192220	1076.355241	0.016327	0.015148	0.000000	3.406878	3.878471	6.945549	10.388616	4983.074298	0.127146	0.116974	0.000000	0.31050087	0.075144332	0.31845843	0.061731023
ConRAC	0.107796	0.182765	1.922664	0.188079	1055.076160	0.016036	0.014878	0.000000	3.349402	3.813039	6.822816	10.182403	4877.966175	0.124313	0.114368	0.000000	0.295696153	0.072529059	0.301827256	0.058507182
Airport Police	0.081973	0.139133	1.352606	0.133990	777.143253	0.012227	0.011344	0.000000	2.598685	2.958406	5.219762	7.488992	3505.115197	0.087320	0.080335	0.000000	0.102326982	0.03837014	0.084602145	0.016399556
Avion-Century Staff	0.077520	0.131609	1.254295	0.124662	729.211570	0.011570	0.010735	0.000000	2.469219	2.811017	4.943302	7.024492	3268.356413	0.080941	0.074465	0.000000	0.068978971	0.03247917	0.047139992	0.00913777

**Table 51  
EMFAC Emission Factors**

Mode	Speed (mph)	Criteria Pollutant Emission Factors (g/mi)															Road Dust + Tire & Brake Wear (g/mi)				
		Cars									Trucks						Cars		Trucks		
		ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx		ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	PM10	PM2.5	PM10
Idle	5	0.086299179	0.146567916	1.356704362	0.135508901	802.6768658	0.012892487	0.011961659	0	2.767566876	3.150664218	5.514508458	7.727994046	3564.521053	0.087495276	0.080495654	0				
Running	10	0.055386661	0.093584844	1.222693663	0.116013214	596.1271363	0.008168702	0.007578824	0	1.610181504	1.833069073	3.438327545	5.776990712	2944.572954	0.079344945	0.072997349	0	0.414749772	0.073266094	0.465917422	0.090314955
Idle Emission Factor		0.071915982	0.12213993	1.130586969	0.112924084	668.8973882	0.010743739	0.009968049	0	2.30630573	2.625553515	4.595423715	6.439995039	2970.434211	0.07291273	0.067079711	0				

Note:  
Emission factors are weighted average of gasoline and diesel light-duty vehicles (LDA, LDT1, and LDT2) at given speed.  
CO2 emission factors assume that the Pavley I and low carbon fuel standards are in place.  
HAPs emissions from diesel fueled cars and trucks are zero because there is no speciation profile for diesel exhaust.  
Idle Time 10 minutes

**Table 52  
EDMS Running Emission Factor**

Lot	Perimeter		Criteria Pollutant Emission Factors (g/veh)															Road Dust + Tire & Brake Wear (g/veh)				
	(m)	(mi)	Cars									Trucks						Cars		Trucks		
			ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	PM10	PM2.5	PM10	PM2.5
Employee Parking	338	0.210238	0.011644	0.019675	0.257057	0.024390	125.328841	0.001717	0.001593	0	0.338522	0.385382	0.722869	1.214546	619.062433	0.016681	0.015347	0	0.087196346	0.01540335	0.097953753	0.018987676
ITC	1302	0.809025	0.044809	0.075713	0.989190	0.093858	482.281931	0.006609	0.006131	0	1.302678	1.482999	2.781694	4.673732	2382.233995	0.064192	0.059057	0	0.335543056	0.059274123	0.376938978	0.073067083
Surface Lot	662	0.411488	0.022791	0.038509	0.503124	0.047738	245.299461	0.003361	0.003119	0	0.662571	0.754287	1.414832	2.377165	1211.657906	0.032650	0.030038	0	0.170664761	0.030148155	0.191719661	0.037163565
West Employee	432	0.268199	0.014855	0.025099	0.327926	0.031115	159.880845	0.002191	0.002033	0	0.431849	0.491628	0.922157	1.549385	789.732227	0.021280	0.019578	0	0.111235574	0.019649911	0.124958698	0.024222402
World Way West Admin	190	0.117998	0.006536	0.011043	0.144276	0.013689	70.342032	0.000964	0.000894	0	0.189999	0.216299	0.405717	0.681676	347.454818	0.009363	0.008614	0	0.048939798	0.00864528	0.054977498	0.010657018
GTC	1100	0.683508	0.037857	0.063966	0.835721	0.079296	407.457852	0.005583	0.005180	0	1.100572	1.252918	2.350125	3.948621	2012.640088	0.054233	0.049894	0	0.283484916	0.050077984	0.31845843	0.061731023
ConRAC	1043	0.647813	0.035880	0.060625	0.792077	0.075155	386.178772	0.005292	0.004910	0	1.043096	1.187486	2.227392	3.742408	1907.531964	0.051401	0.047289	0	0.268680199	0.047462711	0.301827256	0.058507182
Airport Police	292	0.181582	0.010057	0.016993	0.222019	0.021066	108.245865	0.001483	0.001376	0	0.292380	0.332852	0.624338	1.048997	534.680986	0.014408	0.013255	0	0.075311028	0.013303792	0.084602145	0.016399556
Avion-Century Staff	163	0.101177	0.005604	0.009469	0.123708	0.011738	60.314182	0.000826	0.000767	0	0.162913	0.185464	0.347879	0.584497	297.922202	0.008028	0.007386	0	0.041963017	0.007412822	0.047139992	0.00913777

**Parking Lot Emission Factors  
Alternative 4 (2025)**

**Table 53  
EDMS Emission Factor (Idle + Running)**

Lot	Criteria Pollutant Emission Factor (grams per vehicle)															Start Up + Road Dust + Tire & Brake Wear (g/veh)					
	Cars									Trucks						Cars		Trucks			
	ROG	TOG	CO	NOx	CO2	PM-10	PM-2.5	SOx	0	ROG	TOG	CO	NOx	CO2	PM-10	PM-2.5	SOx	PM10	PM2.5	PM10	PM2.5
Employee Parking	0.083560	0.141815	1.387644	0.137315	794.226229	0.012461	0.011561	0.000000	0	2.644828	3.010935	5.318292	7.654541	3589.496644	0.089594	0.082427	0.000000	0.114183938	0.040443382	0.097953753	0.018987676
P-1	0.087887	0.149126	1.483157	0.146377	840.793859	0.013099	0.012153	0.000000	0	2.770610	3.154129	5.586884	8.105821	3819.517684	0.095792	0.088129	0.000000	0.146582923	0.046166705	0.134349798	0.026042804
P-2	0.095547	0.162068	1.652255	0.162422	923.237700	0.014229	0.013202	0.000000	0	2.993297	3.407641	6.062402	8.904774	4226.749444	0.106766	0.098224	0.000000	0.203942439	0.056299339	0.198785754	0.03853328
P-3	0.084236	0.142956	1.402557	0.138729	801.496878	0.012561	0.011654	0.000000	0	2.664466	3.033292	5.360228	7.724999	3625.410052	0.090562	0.083317	0.000000	0.119242423	0.04133697	0.103636303	0.0200892
P-4	0.084687	0.143719	1.412520	0.139675	806.354525	0.012627	0.011716	0.000000	0	2.677587	3.048229	5.388246	7.772074	3649.404423	0.091208	0.083912	0.000000	0.122622084	0.041933991	0.107432913	0.020825147
P-5	0.081953	0.139100	1.352168	0.133948	776.929907	0.012224	0.011342	0.000000	0	2.598109	2.957750	5.218531	7.486924	3504.061375	0.087292	0.080309	0.000000	0.102150187	0.038317604	0.084435399	0.016367234
P-6	0.085207	0.144597	1.423985	0.140763	811.944089	0.012704	0.011787	0.000000	0	2.692685	3.065417	5.420485	7.826242	3677.014100	0.091952	0.084596	0.000000	0.12651097	0.042620968	0.11180157	0.021671982
P-7	0.093355	0.158364	1.603858	0.157830	899.641996	0.013906	0.012902	0.000000	0	2.929563	3.335085	5.926307	8.676111	4110.198348	0.103625	0.095335	0.000000	0.187525953	0.053399345	0.180343967	0.034958464
Continental City	0.088057	0.149413	1.486911	0.146733	842.624179	0.013124	0.012177	0.000000	0	2.775554	3.159757	5.597441	8.123559	3828.558560	0.096036	0.088353	0.000000	0.14785635	0.046391658	0.135780329	0.026320103
Parking-B	0.099480	0.168713	1.739068	0.170659	965.563790	0.014809	0.013740	0.000000	0	3.107623	3.537792	6.306529	9.314951	4435.819379	0.112399	0.103407	0.000000	0.233390413	0.061501363	0.231866722	0.044945803
ConRAC	0.107796	0.182765	1.922664	0.188079	1055.076160	0.016036	0.014878	0.000000	0	3.349402	3.813039	6.822816	10.182403	4877.966175	0.124313	0.114368	0.000000	0.295667791	0.072502744	0.301827256	0.058507182
World Way West Admin	0.078452	0.133183	1.274863	0.126613	739.239420	0.011708	0.010862	0.000000	0	2.496305	2.841853	5.001141	7.121671	3317.889029	0.082275	0.075693	0.000000	0.07592739	0.033685312	0.054977498	0.010657018

**Table 54  
EMFAC Emission Factors**

Mode	Speed (mph)	Criteria Pollutant Emission Factors (g/mi)															Road Dust + Tire & Brake Wear (g/mi)				
		Cars									Trucks						Cars		Trucks		
		ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	0	ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	PM10	PM2.5	PM10
Idle	5	0.0862992	0.1465679	1.3567044	0.1355089	802.6768658	0.0128925	0.011961659	0	2.7675669	3.1506642	5.5145085	7.727994	3564.521053	0.087495276	0.080495654	0	0.414749772	0.073266094	0.465917422	0.090314955
Running	10	0.0553867	0.0935848	1.2226937	0.1160132	596.1271363	0.0081687	0.007578824	0	1.6101815	1.8330691	3.4383275	5.7769907	2944.572954	0.079344945	0.072997349	0				
Idle Emission Factor		0.071916	0.1221399	1.130587	0.1129241	668.8973882	0.0107437	0.009968049	0	2.3063057	2.6255535	4.5954237	6.439995	2970.434211	0.07291273	0.067079711	0				

Note:  
Emission factors are weighted average of gasoline and diesel light-duty vehicles (LDA, LDT1, and LDT2) at given speed.  
CO2 emission factors assume that the Pavley I and low carbon fuel standards are in place.  
HAPs emissions from diesel fueled cars and trucks are zero because there is no speciation profile for diesel exhaust.  
Idle Time 10 minutes

**Table 55  
EDMS Running Emission Factor**

Lot	Perimeter		Criteria Pollutant Emission Factors (g/veh)															Road Dust + Tire & Brake Wear (g/veh)				
	(m)	(mi)	Cars									Trucks						Cars		Trucks		
			ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	0	ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	PM10	PM2.5	PM10
Employee Parking	338	0.210238	0.011644	0.019675	0.257057	0.024390	125.328841	0.001717	0.001593	0	0.338522	0.385382	0.722869	1.214546	619.062433	0.016681	0.015347	0	0.087196346	0.01540335	0.097953753	0.018987676
P-1	464	0.288355	0.015971	0.026986	0.352570	0.033453	171.896471	0.002355	0.002185	0	0.464305	0.528575	0.991460	1.665826	849.083473	0.022880	0.021049	0	0.119595331	0.021126673	0.134349798	0.026042804
P-2	687	0.426654	0.023631	0.039928	0.521668	0.049498	254.340312	0.003485	0.003234	0	0.686991	0.782087	1.466978	2.464779	1256.315234	0.033853	0.031145	0	0.176954847	0.031259307	0.198785754	0.03853328
P-3	358	0.222435	0.012320	0.020817	0.271970	0.025805	132.599490	0.001817	0.001686	0	0.358161	0.407739	0.764804	1.285004	654.975841	0.017649	0.016237	0	0.092254831	0.016296938	0.103636303	0.0200892
P-4	371	0.230584	0.012771	0.021579	0.281933	0.026751	137.457137	0.001884	0.001748	0	0.371281	0.422676	0.792822	1.332079	678.970213	0.018296	0.016832	0	0.095634493	0.016893959	0.107432913	0.020825147
P-5	292	0.181224	0.010037	0.016960	0.221581	0.021024	108.032519	0.001480	0.001373	0	0.291803	0.332196	0.623107	1.046929	533.627165	0.014379	0.013229	0	0.075162595	0.013277572	0.084435399	0.016367234
P-6	386	0.239960	0.013291	0.022457	0.293398	0.027839	143.046701	0.001960	0.001819	0	0.386379	0.439863	0.825061	1.386247	706.579889	0.019040	0.017516	0	0.099523378	0.017580936	0.11180157	0.021671982
P-7	623	0.387073	0.021439	0.036224	0.473271	0.044906	230.744608	0.003162	0.002934	0	0.623257	0.709531	1.330883	2.236116	1139.764138	0.030712	0.028255	0	0.160538361	0.028359313	0.180343967	0.034958464
Continental City	469	0.291426	0.016141	0.027273	0.356324	0.033809	173.726791	0.002381	0.002209	0	0.469248	0.534204	1.002017	1.683564	858.124349	0.023123	0.021273	0	0.120868759	0.021351626	0.135780329	0.026320103
Parking-B	801	0.497656	0.027564	0.046573	0.608481	0.057735	296.666402	0.004065	0.003772	0	0.801317	0.912238	1.711105	2.874956	1465.385168	0.039487	0.036328	0	0.206402821	0.036461331	0.231866722	0.044945803
ConRAC	1043	0.647813	0.035880	0.060625	0.792077	0.075155	386.178772	0.005292	0.004910	0	1.043096	1.187486	2.227392	3.742408	1907.531964	0.051401	0.047289	0	0.268680199	0.047462711	0.301827256	0.058507182
World Way West Admin	190	0.117998	0.006536	0.011043	0.144276	0.013689	70.342032	0.000964	0.000894	0	0.189999	0.216299	0.405717	0.681676	347.454818	0.009363	0.008614	0	0.048939798	0.00864528	0.054977498	0.010657018

**Parking Lot Emission Factors  
Alternatives 8 and 9 (2025)**

**Table 56  
EDMS Emission Factor (Idle + Running)**

Lot	Criteria Pollutant Emission Factor (grams per vehicle)															Start Up + Road Dust + Tire & Brake Wear (g/veh)				
	Cars							Trucks								Cars		Trucks		
	ROG	TOG	CO	NOx	CO2	PM-10	PM-2.5	SOx	ROG	TOG	CO	NOx	CO2	PM-10	PM-2.5	SOx	PM10	PM2.5	PM10	PM2.5
Employee Parking	0.083560	0.141815	1.387644	0.137315	794.226229	0.012461	0.011561	0.000000	2.644828	3.010935	5.318292	7.654541	3589.496644	0.089594	0.082427	0.000000	0.114183938	0.040443382	0.097953753	0.018987676
P-1	0.087887	0.149126	1.483157	0.146377	840.793859	0.013099	0.012153	0.000000	2.770610	3.154129	5.586884	8.105821	3819.517684	0.095792	0.088129	0.000000	0.146582923	0.046166705	0.134349798	0.026042804
P-2	0.095547	0.162068	1.652255	0.162422	923.237700	0.014229	0.013202	0.000000	2.993297	3.407641	6.062402	8.904774	4226.749444	0.106766	0.098224	0.000000	0.203942439	0.056299339	0.198785754	0.03853328
P-3	0.084236	0.142956	1.402557	0.138729	801.496878	0.012561	0.011654	0.000000	2.664466	3.033292	5.360228	7.724999	3625.410052	0.090562	0.083317	0.000000	0.119242423	0.04133697	0.103636303	0.0200892
P-4	0.084687	0.143719	1.412520	0.139675	806.354525	0.012627	0.011716	0.000000	2.677587	3.048229	5.388246	7.772074	3649.404423	0.091208	0.083912	0.000000	0.122622084	0.041933991	0.107432913	0.020825147
P-5	0.081953	0.139100	1.352168	0.133948	776.929907	0.012224	0.011342	0.000000	2.598109	2.957750	5.218531	7.486924	3504.061375	0.087292	0.080309	0.000000	0.102150187	0.038317604	0.084435399	0.016367234
P-6	0.085207	0.144597	1.423985	0.140763	811.944089	0.012704	0.011787	0.000000	2.692685	3.065417	5.420485	7.826242	3677.014100	0.091952	0.084596	0.000000	0.12651097	0.042620968	0.11180157	0.021671982
P-7	0.093355	0.158364	1.603858	0.157830	899.641996	0.013906	0.012902	0.000000	2.929563	3.335085	5.926307	8.676111	4110.198348	0.103625	0.095335	0.000000	0.187525953	0.053399345	0.180343967	0.034958464
ITF	0.127608	0.216240	2.360018	0.229577	1268.309203	0.018957	0.017589	0.000000	3.925359	4.468723	8.052697	12.248817	5931.231850	0.152695	0.140479	0.000000	0.444022647	0.098709825	0.468484641	0.090812594
Airport Police	0.083793	0.142209	1.392788	0.137803	796.733927	0.012495	0.011593	0.000000	2.651601	3.018646	5.332756	7.678842	3601.883429	0.089928	0.082734	0.000000	0.115928645	0.040751586	0.099913705	0.019367599
Parking-B	0.099480	0.168713	1.739068	0.170659	965.563790	0.014809	0.013740	0.000000	3.107623	3.537792	6.306529	9.314951	4435.819379	0.112399	0.103407	0.000000	0.233390413	0.061501363	0.231866722	0.044945803
Parking-C	0.095897	0.162660	1.659991	0.163156	927.009732	0.014281	0.013250	0.000000	3.003485	3.419240	6.084158	8.941328	4245.381417	0.107268	0.098666	0.000000	0.206566794	0.056762935	0.201733876	0.039104754
Lot D	0.085092	0.144402	1.421445	0.140522	810.705861	0.012687	0.011771	0.000000	2.689340	3.061609	5.413343	7.814243	3670.897867	0.091788	0.084445	0.000000	0.125649485	0.042468786	0.110833804	0.021484387
Manchester Square	0.101346	0.171866	1.780265	0.174568	985.649184	0.015084	0.013995	0.000000	3.161875	3.599554	6.422377	9.509596	4535.031281	0.115073	0.105867	0.000000	0.247364634	0.063969927	0.247564942	0.047988797
World Way West Admin	0.078452	0.133183	1.274863	0.126613	739.239420	0.011708	0.010862	0.000000	2.496305	2.841853	5.001141	7.121671	3317.889029	0.082275	0.075693	0.000000	0.07592739	0.033685312	0.054977498	0.010657018
New Employee Parking	0.088938	0.150902	1.506362	0.148579	852.107442	0.013254	0.012297	0.000000	2.801169	3.188918	5.652138	8.215460	3875.401183	0.097298	0.089514	0.000000	0.15445424	0.047557184	0.1431922	0.027756844

**Table 57  
EMFAC Emission Factors**

Mode	Speed (mph)	Criteria Pollutant Emission Factors (g/mi)															Road Dust + Tire & Brake Wear (g/mi)				
		Cars							Trucks								Cars		Trucks		
		ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	PM10	PM2.5	PM10	PM2.5
Idle	5	0.086299179	0.146567916	1.356704362	0.135508901	802.6768658	0.012892487	0.011961659	0	2.767566876	3.150664218	5.514508458	7.727994046	3564.521053	0.087495276	0.080495654	0				
Running	10	0.055386661	0.093584844	1.222693663	0.116013214	596.1271363	0.008168702	0.007578824	0	1.610181504	1.833069073	3.438327545	5.776990712	2944.572954	0.079344945	0.072997349	0	0.414749772	0.073266094	0.465917422	0.090314955
Idle Emission Factor		0.071915982	0.12213993	1.130586969	0.112924084	668.8973882	0.010743739	0.009968049	0	2.30630573	2.625553515	4.595423715	6.439995039	2970.434211	0.07291273	0.067079711	0				

Note:  
Emission factors are weighted average of gasoline and diesel light-duty vehicles (LDA, LDT1, and LDT2) at given speed.  
CO2 emission factors assume that the Pavley I and low carbon fuel standards are in place.  
HAPs emissions from diesel fueled cars and trucks are zero because there is no speciation profile for diesel exhaust.  
Idle Time 10 minutes

**Table 58  
EDMS Running Emission Factor**

Lot	Perimeter		Criteria Pollutant Emission Factors (g/veh)															Road Dust + Tire & Brake Wear (g/veh)				
	(m)	(mi)	Cars							Trucks								Cars		Trucks		
			ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	ROG	TOG	CO	NOx	CO2	PM10	PM2.5	SOx	PM10	PM2.5	PM10	PM2.5
Employee Parking	338	0.210238	0.011644	0.019675	0.257057	0.024390	125.328841	0.001717	0.001593	0	0.338522	0.385382	0.722869	1.214546	619.062433	0.016681	0.015347	0	0.087196346	0.01540335	0.097953753	0.018987676
P-1	464	0.288355	0.015971	0.026986	0.352570	0.033453	171.896471	0.002355	0.002185	0	0.464305	0.528575	0.991460	1.665826	849.083473	0.022880	0.021049	0	0.119595331	0.021126673	0.134349798	0.026042804
P-2	687	0.426654	0.023631	0.039928	0.521668	0.049498	254.340312	0.003485	0.003234	0	0.686991	0.782087	1.466978	2.464779	1256.315234	0.033853	0.031145	0	0.176954847	0.031259307	0.198785754	0.03853328
P-3	358	0.222435	0.012320	0.020817	0.271970	0.025805	132.599490	0.001817	0.001686	0	0.358161	0.407739	0.764804	1.285004	654.975841	0.017649	0.016237	0	0.092254831	0.016296938	0.103636303	0.0200892
P-4	371	0.230584	0.012771	0.021579	0.281933	0.026751	137.457137	0.001884	0.001748	0	0.371281	0.422676	0.792822	1.332079	678.970213	0.018296	0.016832	0	0.095634493	0.016893959	0.107432913	0.020825147
P-5	292	0.181224	0.010037	0.016960	0.221581	0.021024	108.032519	0.001480	0.001373	0	0.291803	0.332196	0.623107	1.046929	533.627165	0.014379	0.013229	0	0.075162595	0.013277572	0.084435399	0.016367234
P-6	386	0.239960	0.013291	0.022457	0.293398	0.027839	143.046701	0.001960	0.001819	0	0.386379	0.439863	0.825061	1.386247	706.579889	0.019040	0.017516	0	0.099523378	0.017580936	0.11180157	0.021671982
P-7	623	0.387073	0.021439	0.036224	0.473271	0.044906	230.744608	0.003162	0.002934	0	0.623257	0.709531	1.330883	2.236116	1139.764138	0.030712	0.028255	0	0.160538361	0.028359313	0.180343967	0.034958464
ITF	1618	1.005510	0.055692	0.094100	1.229431	0.116652	599.411815	0.008214	0.007621	0	1.619054	1.843169	3.457273	5.808822	2960.797639	0.079782	0.073400	0	0.417035056	0.073669792	0.468484641	0.090812594
Airport Police	345	0.214445	0.011877	0.020069	0.262201	0.024878	127.836539	0.001752	0.001625	0	0.345296	0.393093	0.737332	1.238847	631.449219	0.017015	0.015654	0	0.088941053	0.015711554	0.099913705	0.019367599
Parking-B	801	0.497656	0.027584	0.046573	0.608481	0.057735	296.666402	0.004065	0.003772	0	0.801317	0.912238	1.711105	2.874956	1465.385168	0.039487	0.036328	0	0.206402821	0.036461331	0.231866722	0.044945803
Parking-C	697	0.432982	0.023981	0.040521	0.529404	0.050232	258.112344	0.003537	0.003281	0	0.697180	0.793686	1.488734	2.501333	1274.947206	0.034355	0.031607	0	0.179579203	0.031722903	0.201733876	0.039104754
Lot D	383	0.237883	0.013176	0.022262	0.290858	0.027598	141.808473	0.001943	0.001803	0	0.383035	0.436056	0.817919	1.374248	700.463656	0.018875	0.017365	0	0.098661893	0.017428753	0.110833804	0.021484387
Manchester Square	855	0.531349	0.029430	0.049726	0.649678	0.061644	316.751796	0.004340	0.004027	0	0.855569	0.974000	1.826953	3.069601	1564.597070	0.042160	0.038787	0	0.220377042	0.038929895	0.247564942	0.047988797
World Way West Admin	190	0.117998	0.006536	0.011043	0.144276	0.013689	70.342032	0.000964	0.000894	0	0.189999	0.216299	0.405717	0.681676	347.454818	0.009363	0.008614	0	0.048939798	0.00864528	0.054977498	0.010657018
New Employee Parking	495	0.307334	0.017022	0.028762	0.375775	0.035655	183.210054	0.002511	0.002329	0	0.494863	0.563364	1.056714	1.775465	904.966972	0.024385	0.022435	0	0.127466648	0.022517152	0.1431922	0.027756844





Table 59

Off-Airport Roadways Emissions

	Peak Daily Emissions (lb/day)							metric tons/year
	ROG	TOG	CO	NOx	PM10	PM25	SOx	CO2
Baseline	3,322.43	4,097.03	55,887.76	20,366.42	7,597.53	1,860.29	-	1,315,179.36
Alt 1	1,018.19	1,426.37	21,318.85	5,659.00	10,295.24	2,030.48	-	1,435,649.64
Alt 2	1,018.19	1,426.37	21,318.85	5,659.00	10,295.24	2,030.48	-	1,435,649.64
Alt 3	910.85	1,285.98	20,226.15	5,243.51	9,876.43	1,944.83	-	1,348,743.49
Alt 4	995.50	1,395.46	20,935.07	5,551.35	10,116.34	1,995.50	-	1,409,222.82
Alt 8	958.94	1,351.65	20,754.53	5,383.95	10,047.12	1,978.41	-	1,388,728.77
Alt 9	958.94	1,351.65	20,754.53	5,383.95	10,047.12	1,978.41	-	1,388,728.77

Incremental Change in Emissions

	ROG	TOG	CO	NOx	PM10	PM25	SOx	CO2
	Incremental Change in Daily Emissions (lb/day)							metric tons/year
Baseline	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alt 1	(2,304.24)	(2,670.66)	(34,568.91)	(14,707.42)	2,697.70	170.19	-	120,470.27
Alt 2	(2,304.24)	(2,670.66)	(34,568.91)	(14,707.42)	2,697.70	170.19	-	120,470.27
Alt 3	(2,411.58)	(2,811.05)	(35,661.61)	(15,122.91)	2,278.90	84.55	-	33,564.12
Alt 4	(2,326.93)	(2,701.57)	(34,952.69)	(14,815.07)	2,518.80	135.21	-	94,043.45
Alt 8	(2,363.49)	(2,745.38)	(35,133.23)	(14,982.47)	2,449.58	118.12	-	73,549.41
Alt 9	(2,363.49)	(2,745.38)	(35,133.23)	(14,982.47)	2,449.58	118.12	-	73,549.41

Table 60

2010 Baseline - VMT By Speed Bin

Speed Bin	All Airport Facilities			% of VMT
	Car	Truck	Total	
0-5	119,256	5,228	124,484	1.7%
5-10	229,581	11,116	240,697	3.2%
10-15	542,680	33,004	575,684	7.7%
15-20	934,691	61,644	996,335	13.3%
20-25	873,822	54,133	927,955	12.4%
25-30	794,364	48,583	842,947	11.2%
30-35	648,317	38,325	686,642	9.1%
35-40	553,469	33,849	587,317	7.8%
40-45	943,157	50,977	994,134	13.2%
45-50	772,373	42,028	814,400	10.8%
50-55	452,186	27,768	479,954	6.4%
55-60	190,441	10,939	201,380	2.7%
60-65	33,117	1,048	34,165	0.5%
>65	8	1	8	0.0%
<b>Total VMT</b>	<b>7,087,461</b>	<b>418,642</b>	<b>7,506,103</b>	<b>100.0%</b>

Vehicle Trips	223,978	29,157	253,135
% of Vehicle Trips (By Type)	88%	12%	100%
% of Total Vehicle Trips	88%	12%	100%
Average Vehicle Trip Length (Miles)	31.6	14.4	29.7

Annual Emission (metric tons per year)

Speed	CO2		
	Car	Truck	Total
5	47,942.05	7,037.47	54,979.52
10	68,499.25	12,361.92	80,861.18
15	124,610.69	30,136.60	154,747.29
20	171,511.31	44,402.05	215,913.36
25	133,053.69	36,383.27	169,436.96
30	104,045.60	30,649.98	134,695.58
35	75,762.76	22,867.17	98,629.93
40	60,114.47	19,275.15	79,389.62
45	98,977.61	27,999.75	126,977.36
50	80,846.43	22,530.59	103,377.01
55	48,925.55	14,715.11	63,640.66
60	21,917.86	5,806.13	27,724.00
65	4,242.08	564.82	4,806.90
Total	1,040,449.35	274,730.02	1,315,179.36

Table 61

2025 Alt 1/2 - VMT By Speed Bin

Speed Bin	All Airport Facilities			
	Car	Truck	Total	% of VMT
0-5	279,675	13,006	292,681	2.7%
5-10	482,149	25,284	507,433	4.6%
10-15	979,590	55,624	1,035,214	9.4%
15-20	1,486,885	86,263	1,573,148	14.3%
20-25	1,333,303	74,318	1,407,621	12.8%
25-30	1,180,559	66,095	1,246,654	11.3%
30-35	806,237	48,486	854,723	7.8%
35-40	801,767	45,992	847,759	7.7%
40-45	1,468,708	78,892	1,547,600	14.1%
45-50	743,850	46,366	790,215	7.2%
50-55	585,629	37,209	622,838	5.7%
55-60	227,581	13,954	241,535	2.2%
60-65	41,804	1,601	43,405	0.4%
>65	735	0	736	0.0%
<b>Total VMT</b>	<b>10,418,472</b>	<b>593,091</b>	<b>11,011,563</b>	<b>100.0%</b>

Vehicle Trips	340,031	36,600	376,631
% of Vehicle Trips (By Type)	90%	10%	100%
% of Total Vehicle Trips	90%	10%	100%
Average Vehicle Trip Length (Miles)	30.6	16.2	29.2

Annual Emission (metric tons per year)

EF Lookup Speed	CO2		
	Car	Truck	Total
5	74,954.11	15,479.33	90,433.44
10	95,966.80	24,858.10	120,824.90
15	150,100.34	44,902.74	195,003.08
20	182,073.81	54,920.46	236,994.27
25	135,457.15	44,159.29	179,616.45
30	103,152.82	36,863.58	140,016.40
35	62,860.57	25,575.66	88,436.24
40	58,135.62	23,154.17	81,289.79
45	102,719.59	38,309.24	141,028.83
50	51,983.56	21,974.78	73,958.34
55	42,208.93	17,432.36	59,641.28
60	17,462.56	6,548.18	24,010.74
65	3,633.31	762.58	4,395.89
Total	1,080,709.16	354,940.47	1,435,649.64

Table 62

2025 Alt 3 - VMT By Speed Bin

Speed Bin	All Airport Facilities			
	Car	Truck	Total	% of VMT
0-5	239,540	11,316	250,856	2.4%
5-10	373,866	16,219	390,085	3.7%
10-15	922,893	42,003	964,897	9.1%
15-20	1,423,724	70,917	1,494,642	14.1%
20-25	1,313,303	72,802	1,386,105	13.1%
25-30	1,209,228	68,615	1,277,843	12.1%
30-35	763,915	54,925	818,840	7.7%
35-40	703,179	38,906	742,084	7.0%
40-45	1,416,448	79,682	1,496,129	14.2%
45-50	773,831	52,296	826,127	7.8%
50-55	600,832	40,084	640,916	6.1%
55-60	221,948	13,423	235,371	2.2%
60-65	41,690	1,119	42,809	0.4%
>65	727	0	728	0.0%
<b>Total VMT</b>	<b>10,005,125</b>	<b>562,308</b>	<b>10,567,432</b>	<b>100.0%</b>

Vehicle Trips	333,904	23,470	357,374
% of Vehicle Trips (By Type)	93%	7%	100%
% of Total Vehicle Trips	93%	7%	100%
Average Vehicle Trip Length (Miles)	30.0	24.0	29.6

Annual Emission (metric tons per year)

EF Lookup Speed	CO2		
	Car	Truck	Total
5	64,197.69	13,467.63	77,665.32
10	74,414.23	15,945.55	90,359.78
15	141,412.81	33,907.59	175,320.40
20	174,339.59	45,150.53	219,490.12
25	133,425.25	43,258.47	176,683.72
30	105,657.79	38,269.34	143,927.13
35	59,560.80	28,972.48	88,533.28
40	50,987.05	19,586.56	70,573.61
45	99,064.56	38,692.55	137,757.11
50	54,078.81	24,785.18	78,863.99
55	43,304.68	18,779.16	62,083.83
60	17,030.37	6,298.93	23,329.30
65	3,622.89	533.00	4,155.89
Total	1,021,096.51	327,646.98	1,348,743.49

Table 63

2025 Alt 4 - VMT By Speed Bin

Speed Bin	All Airport Facilities			
	Car	Truck	Total	% of VMT
0-5	266,867	12,292	279,159	2.6%
5-10	479,436	25,074	504,510	4.7%
10-15	974,036	53,340	1,027,376	9.5%
15-20	1,444,495	80,250	1,524,745	14.1%
20-25	1,300,428	74,808	1,375,236	12.7%
25-30	1,173,606	66,035	1,239,641	11.5%
30-35	798,261	48,226	846,487	7.8%
35-40	775,793	45,200	820,992	7.6%
40-45	1,434,945	78,660	1,513,605	14.0%
45-50	757,127	46,580	803,706	7.4%
50-55	566,923	39,031	605,954	5.6%
55-60	222,215	13,222	235,437	2.2%
60-65	41,113	1,194	42,307	0.4%
>65	676	0	676	0.0%
<b>Total VMT</b>	<b>10,235,921</b>	<b>583,911</b>	<b>10,819,832</b>	<b>100.0%</b>

Vehicle Trips	333,827	32,623	366,451
% of Vehicle Trips (By Type)	91%	9%	100%
% of Total Vehicle Trips	91%	9%	100%
Average Vehicle Trip Length (Miles)	30.7	17.9	29.5

Annual Emission (metric tons per year)

EF Lookup Speed	CO2		
	Car	Truck	Total
5	71,521.48	14,628.97	86,150.45
10	95,426.87	24,651.89	120,078.76
15	149,249.34	43,059.26	192,308.60
20	176,883.04	51,092.20	227,975.25
25	132,117.23	44,450.43	176,567.65
30	102,545.21	36,830.29	139,375.50
35	62,238.64	25,438.63	87,677.27
40	56,252.23	22,755.19	79,007.43
45	100,358.27	38,196.35	138,554.62
50	52,911.42	22,076.06	74,987.47
55	40,860.72	18,285.85	59,146.57
60	17,050.87	6,204.33	23,255.20
65	3,569.21	568.82	4,138.03
Total	1,060,984.54	348,238.28	1,409,222.82

Table 64

2025 Alt 8/9 - VMT By Speed Bin

Speed Bin	All Airport Facilities			
	Car	Truck	Total	% of VMT
0-5	259,449	11,863	271,312	2.5%
5-10	464,696	20,639	485,335	4.5%
10-15	961,940	48,165	1,010,105	9.4%
15-20	1,451,207	74,645	1,525,853	14.2%
20-25	1,332,708	73,505	1,406,213	13.1%
25-30	1,152,041	65,847	1,217,889	11.3%
30-35	812,842	49,178	862,020	8.0%
35-40	739,737	42,422	782,159	7.3%
40-45	1,429,793	80,600	1,510,392	14.1%
45-50	750,921	46,344	797,266	7.4%
50-55	568,209	39,400	607,609	5.7%
55-60	217,017	13,089	230,106	2.1%
60-65	41,263	1,364	42,627	0.4%
>65	664	0	664	0.0%
<b>Total VMT</b>	<b>10,182,488</b>	<b>567,062</b>	<b>10,749,549</b>	<b>100.0%</b>

Vehicle Trips	<b>333,043</b>	<b>26,534</b>	<b>359,578</b>
% of Vehicle Trips (By Type)	93%	7%	100%
% of Total Vehicle Trips	93%	7%	100%
Average Vehicle Trip Length (Miles)	<b>30.6</b>	<b>21.4</b>	<b>29.9</b>

Annual Emission (metric tons per year)

EF Lookup Speed	CO2		
	Car	Truck	Total
5	69,533.39	14,118.90	83,652.30
10	92,492.93	20,291.23	112,784.16
15	147,395.85	38,881.85	186,277.70
20	177,704.98	47,524.08	225,229.06
25	135,396.70	43,676.16	179,072.86
30	100,661.02	36,725.51	137,386.53
35	63,375.53	25,940.73	89,316.26
40	53,637.86	21,356.90	74,994.76
45	99,997.90	39,138.32	139,136.22
50	52,477.77	21,964.54	74,442.31
55	40,953.39	18,458.70	59,412.09
60	16,652.02	6,141.93	22,793.95
65	3,580.99	649.58	4,230.57
Total	1,053,860.34	334,868.43	1,388,728.77

**Table 65****Emission Factors - Weighted Average****Baseline (2009)****Passenger Vehicles (Light duty automobiles and trucks)**

Speed (mph)	grams per mile							
	ROG	TOG	CO	NOx	CO2	PM10	PM25	SOx
5	0.5343021	0.69906174	6.46914882	0.52434267	1204.02036	0.0254308	0.02320104	0
10	0.35813368	0.46478508	5.34440165	0.45142224	893.612847	0.01667675	0.01519762	0
15	0.25225931	0.32489649	4.54609021	0.39868888	687.717913	0.01147386	0.01044474	0
20	0.1857445	0.23882833	3.96472209	0.36031153	549.571042	0.00830272	0.00755006	0
25	0.14363991	0.18422007	3.52777466	0.3320214	456.040286	0.0063119	0.00573386	0
30	0.11640477	0.1491311	3.19071035	0.31302939	392.286308	0.0050364	0.00457062	0
35	0.09904275	0.12656041	2.9300319	0.30088625	349.999645	0.00421492	0.00382138	0
40	0.08833633	0.1123909	2.74313534	0.29168464	325.300834	0.00369803	0.00334952	0
45	0.08220638	0.10455968	2.61638519	0.28665111	314.305441	0.00340086	0.00307742	0
50	0.0804731	0.10213279	2.53264112	0.28997692	313.4967	0.0032786	0.00296402	0
55	0.08252355	0.10470677	2.50995702	0.29945017	324.054363	0.0033146	0.00299385	0
60	0.08903725	0.11309975	2.55813709	0.32043227	344.695858	0.00351619	0.00317322	0
65	0.10059688	0.1276216	2.72619297	0.34290694	383.551574	0.00391697	0.00353215	0

**Table 66**  
**Emission Factors**  
**Baseline (2009)**  
**Heavy-Heavy-Duty Trucks (Diesel)**

EMFAC 2011

2009 Estimated Annual Emission Rates

EMFAC 2007 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	CO2_RUNEX(Pavley I+LCFS) (gms/mile)
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	5	0	4853.70527	0	4031.938487
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	10	0	22998.04115	0	3330.696283
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	15	0	61094.13404	0	2734.790369
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	20	0	285551.7202	0	2157.314175
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	25	0	389462.6109	0	2012.974796
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	30	0	525214.0035	0	1889.481234
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	35	0	414620.017	0	1786.996888
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	40	0	357968.1547	0	1705.521759
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	45	0	375351.7774	0	1645.055846
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	50	0	353768.7422	0	1605.599149
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	55	0	368716.3521	0	1587.151668
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	60	0	776373.0546	0	1589.713403
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	65	0	611704.6482	0	1613.284354

EMFAC 2011

2009 Estimated Annual Emission Rates

EMFAC 2007 Vehicle Categories

Los Angeles COUNTY

South Coast AIR BASIN

South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	CO2_RUNEX(Pavley I+LCFS) (gms/mile)
Los Angeles (SC)	2009	Annual	T7	DSL	AllMYr	AllSpeeds	32187.78181	4547676.961	0	1758.884765



**Table 67**  
**Emission Factors - Weighted Average**  
**Future Conditions (2025)**  
**Passenger Vehicles (Light duty automobiles and trucks)**

Speed (mph)	grams per mile							
	ROG	TOG	CO	NOx	CO2	PM10	PM25	SOx
5	0.08629918	0.14656792	1.35670436	0.1355089	802.676866	0.01289249	0.01196166	0
10	0.05538666	0.09358484	1.22269366	0.11601321	596.127136	0.0081687	0.00757882	0
15	0.03736063	0.0628683	1.10570889	0.10156709	458.919397	0.00545508	0.00506111	0
20	0.02646585	0.04451537	1.00559441	0.09070225	366.749195	0.00384122	0.00356378	0
25	0.01975511	0.03320626	0.91929484	0.08243609	304.27912	0.0028513	0.00264533	0
30	0.01545975	0.02602657	0.8421089	0.07654447	261.693123	0.00223059	0.00206945	0
35	0.01273416	0.02145464	0.77404789	0.07233648	233.514858	0.00183875	0.00170591	0
40	0.01112402	0.01872381	0.72039093	0.06890709	217.166692	0.00159699	0.0014816	0
45	0.01019554	0.01717239	0.67236895	0.06694785	209.467616	0.00146131	0.00135572	0
50	0.00978093	0.01652455	0.62795222	0.06651147	209.305188	0.00140886	0.00130705	0
55	0.00976945	0.01659226	0.58273286	0.06817679	215.864203	0.00143132	0.00132788	0
60	0.01015957	0.0173945	0.53757224	0.07198989	229.811543	0.00153263	0.00142187	0
65	1.13E-02	0.01941544	0.50623087	0.07627644	255.805065	0.00173016	0.00160511	0
70	0.01220778	0.02097696	0.49409682	0.07876302	274.256712	0.00187838	0.0017426	0

**Table 68**  
**Emission Factors**  
**Future Conditions (2025)**  
**Heavy-Heavy-Duty Trucks (Diesel)**

EMFAC 2011  
 2025 Estimated Annual Emission Rates  
 EMFAC 2007 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	CO2_RUNEX(Pavley I+LCFS) (gms/mile)
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	5	0	12953.08054	0	3564.521053
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	10	0	50072.02489	0	2944.572954
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	15	0	128585.9547	0	2417.749645
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	20	0	490448.2384	0	1906.824178
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	25	0	695793.2804	0	1779.613221
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	30	0	940864.0137	0	1670.436109
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	35	0	728137.0883	0	1579.832641
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	40	0	673349.158	0	1507.802819
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	45	0	675952.8034	0	1454.346641
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	50	0	706588.3003	0	1419.464108
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	55	0	856496.5783	0	1403.15522
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	60	0	1557660.25	0	1405.419976
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	65	0	1062512.943	0	1426.258378
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	70	0	851.6581188	0	1465.670424

EMFAC 2011  
 2025 Estimated Annual Emission Rates  
 EMFAC 2007 Vehicle Categories  
 Los Angeles COUNTY  
 South Coast AIR BASIN  
 South Coast AQMD

Area	CalYr	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	Pop (Vehicles)	VMT (Miles/day)	Trips (Trips/day)	CO2_RUNEX(Pavley I+LCFS) (gms/mile)
Los Angeles (SC)	2025	Annual	T7	DSL	AllMYr	AllSpeeds	55335.48086	8580265.372	0	1551.104151

**Table 69**  
**2009 Total Equipment Emissions**

Pollutant	MT/year	MTCO2e/year
CO2	59,778	59,778
CH4	9	192
N2O	2	581
Total	n/a	60,551

**2009 Equipment Emissions (metric tons per year)**

Equipment	2009 Activity (hours/year)	LPG			Gasoline			Diesel			Total			CO2e			Total
		CO2	CH4	N2O	CO2	CH4	N2O	CO2	CH4	N2O	CO2	CH4	N2O	CO2	CH4	N2O	
Air Cond-S	443	0.0	0.0	0.0	0.0	0.0	0.0	161.8	0.0	0.0	161.8	0.0	0.0	161.8	0.2	0.0	162.0
Air Cond-L	443	0.0	0.0	0.0	0.0	0.0	0.0	184.2	0.0	0.0	184.2	0.0	0.0	184.2	0.2	0.0	184.4
Air Start-S	443	0.0	0.0	0.0	0.0	0.0	0.0	2,552.6	0.1	0.0	2,552.6	0.1	0.0	2,552.6	2.3	0.0	2,555.0
Air Start-L	443	0.0	0.0	0.0	0.0	0.0	0.0	725.8	0.0	0.0	725.8	0.0	0.0	725.8	0.7	0.0	726.4
Aircraft Tractor-S	301	22.7	0.0	0.0	0.0	0.0	0.0	421.6	0.0	0.0	444.3	0.1	0.0	444.3	1.3	0.0	445.6
Aircraft Tractor-M	365	0.0	0.0	0.0	107.1	0.0	0.0	5,417.6	0.4	0.0	5,524.6	0.4	0.0	5,524.6	9.0	4.0	5,537.6
Aircraft Tractor-L	365	0.0	0.0	0.0	0.0	0.0	0.0	1,165.1	0.1	0.0	1,165.1	0.1	0.0	1,165.1	1.9	0.0	1,167.1
Bag Tractor	669	102.2	0.1	0.0	4,436.9	0.1	0.3	1,462.1	0.1	0.0	6,001.2	0.4	0.3	6,001.2	7.5	99.4	6,108.1
Belt Loader	468	48.3	0.0	0.0	3,572.6	0.1	0.2	756.3	0.0	0.0	4,377.1	0.1	0.2	4,377.1	2.8	62.7	4,442.6
Bobtail-S	421	54.0	0.0	0.0	725.8	0.0	0.1	144.0	0.0	0.0	923.8	0.1	0.1	923.8	1.2	16.7	941.7
Bobtail-L	421	0.0	0.0	0.0	647.6	0.0	0.0	0.0	0.0	0.0	647.6	0.0	0.0	647.6	0.4	15.4	663.4
Cargo Loader-S	436	0.0	0.0	0.0	34.4	0.0	0.0	3,280.2	0.3	0.0	3,314.6	0.3	0.0	3,314.6	6.0	0.7	3,321.3
Cargo Loader-L	436	0.0	0.0	0.0	446.5	0.0	0.0	1,595.2	0.1	0.0	2,041.8	0.2	0.0	2,041.8	3.2	9.6	2,054.6
Cargo Tractor-S	630	1,947.2	0.9	0.0	1,665.2	0.2	0.2	517.8	0.0	0.0	4,130.2	1.1	0.2	4,130.2	23.3	51.9	4,205.4
Cargo Tractor-L	630	3,461.6	1.6	0.0	4,941.3	0.5	0.5	230.1	0.0	0.0	8,633.0	2.1	0.5	8,633.0	44.5	158.4	8,835.9
Cart	443	17.9	0.0	0.0	9.1	0.0	0.0	83.2	0.0	0.0	110.3	0.0	0.0	110.3	0.6	1.0	111.9
Deicer	443	0.0	0.0	0.0	64.9	0.0	0.0	0.0	0.0	0.0	64.9	0.0	0.0	64.9	0.1	2.9	67.9
Fork Lift-S	357	367.2	0.1	0.0	48.1	0.0	0.0	18.3	0.0	0.0	433.6	0.1	0.0	433.6	1.5	1.2	436.3
Fork Lift-M	357	1,982.5	0.4	0.0	237.7	0.0	0.0	226.5	0.0	0.0	2,446.6	0.4	0.0	2,446.6	8.0	6.2	2,460.8
Fork Lift-L	357	575.0	0.1	0.0	0.0	0.0	0.0	342.2	0.0	0.0	917.2	0.1	0.0	917.2	2.4	0.0	919.6
Generator	443	0.0	0.0	0.0	235.6	0.0	0.0	344.2	0.0	0.0	579.8	0.1	0.0	579.8	1.7	10.4	591.9
GPU-S	443	1,582.9	1.9	0.0	588.0	0.0	0.0	2,970.8	0.3	0.0	5,141.7	2.2	0.0	5,141.7	45.2	12.6	5,199.4
GPU-L	443	0.0	0.0	0.0	0.0	0.0	0.0	1,504.2	0.1	0.0	1,504.2	0.1	0.0	1,504.2	2.7	0.0	1,506.9
Lift-S	380	378.9	0.2	0.0	1,230.3	0.1	0.1	547.7	0.0	0.0	2,156.9	0.4	0.1	2,156.9	8.0	39.6	2,204.5
Lift-L	380	239.5	0.2	0.0	551.4	0.0	0.1	339.4	0.0	0.0	1,130.3	0.2	0.1	1,130.3	4.8	18.8	1,153.8
Other-S	443	41.9	0.0	0.0	140.8	0.0	0.0	208.7	0.0	0.0	391.3	0.1	0.0	391.3	1.6	6.3	399.2
Other-L	443	0.0	0.0	0.0	1,289.6	0.1	0.2	878.2	0.1	0.0	2,167.7	0.2	0.2	2,167.7	4.1	59.0	2,230.8
Pass Stand	34	471.5	0.2	0.0	104.3	0.0	0.0	8.4	0.0	0.0	584.1	0.2	0.0	584.1	5.1	3.0	592.2
Sweeper	443	15.0	0.0	0.0	65.0	0.0	0.0	12.6	0.0	0.0	92.5	0.0	0.0	92.5	0.2	1.5	94.2
Catering Truck	443	37.0	0.0	0.0	157.5	0.0	0.0	144.7	0.0	0.0	339.2	0.0	0.0	339.2	0.3	0.0	339.5
Fuel Truck	443	18.5	0.0	0.0	55.6	0.0	0.0	98.8	0.0	0.0	172.9	0.0	0.0	172.9	0.1	0.0	173.1
Hydrant Truck	443	0.0	0.0	0.0	101.9	0.0	0.0	52.9	0.0	0.0	154.8	0.0	0.0	154.8	0.1	0.0	155.0
Lavatory Truck	443	0.0	0.0	0.0	324.2	0.0	0.0	31.8	0.0	0.0	355.9	0.0	0.0	355.9	0.4	0.0	356.3
Service Truck	443	0.0	0.0	0.0	0.0	0.0	0.0	105.9	0.0	0.0	105.9	0.0	0.0	105.9	0.1	0.0	106.0
Water Truck	443	0.0	0.0	0.0	64.8	0.0	0.0	3.5	0.0	0.0	68.4	0.0	0.0	68.4	0.1	0.0	68.4
Other ORE	443	0.0	0.0	0.0	0.0	0.0	0.0	31.8	0.0	0.0	31.8	0.0	0.0	31.8	0.0	0.0	31.8
<b>Total</b>	<b>15,434</b>	<b>11,363.7</b>	<b>5.8</b>	<b>0.0</b>	<b>21,846.0</b>	<b>1.3</b>	<b>1.9</b>	<b>26,568.1</b>	<b>2.0</b>	<b>0.0</b>	<b>59,777.8</b>	<b>9.1</b>	<b>1.9</b>	<b>59,777.8</b>	<b>191.6</b>	<b>581.2</b>	<b>60,550.6</b>

**Table 70  
2025 Total Equipment Emissions**

Pollutant	MT/year	MTCO2e/year
CO2	78,131	78,131
CH4	5	95
N2O	2	612
Total	n/a	78,838

**2025 Equipment Emissions (metric tons per year)**

Equipment	2025 Activity (hrs/year)	LPG			Gasoline			Diesel			Total			CO2e			
		CO2	CH4	N2O	CO2	CH4	N2O	CO2	CH4	N2O	CO2	CH4	N2O	CO2	CH4	N2O	CO2e
Air Cond-S	582	0.0	0.0	0.0	0.0	0.0	0.0	212.6	0.0	0.0	212.6	0.0	0.0	212.6	0.1	0.0	212.6
Air Cond-L	582	0.0	0.0	0.0	0.0	0.0	0.0	242.0	0.0	0.0	242.0	0.0	0.0	242.0	0.1	0.0	242.0
Air Start-S	582	0.0	0.0	0.0	0.0	0.0	0.0	3,352.9	0.0	0.1	3,352.9	0.0	0.1	3,352.9	0.0	15.9	3,368.7
Air Start-L	582	0.0	0.0	0.0	0.0	0.0	0.0	953.3	0.0	0.0	953.3	0.0	0.0	953.3	0.0	4.5	957.8
Aircraft Tractor-S	395	29.8	0.0	0.0	0.0	0.0	0.0	553.8	0.0	0.0	583.6	0.0	0.0	583.6	0.8	0.0	584.4
Aircraft Tractor-M	480	0.0	0.0	0.0	140.6	0.0	0.0	7,116.0	0.3	0.0	7,256.6	0.3	0.0	7,256.6	5.9	3.0	7,265.5
Aircraft Tractor-L	480	0.0	0.0	0.0	0.0	0.0	0.0	1,530.4	0.1	0.0	1,530.4	0.1	0.0	1,530.4	1.2	0.0	1,531.7
Bag Tractor	879	134.3	0.0	0.1	5,827.8	0.4	0.1	1,920.5	0.0	0.1	7,882.6	0.4	0.3	7,882.6	7.8	93.3	7,983.7
Belt Loader	615	63.4	0.0	0.0	4,692.5	0.2	0.0	993.3	0.0	0.0	5,749.3	0.2	0.1	5,749.3	4.8	18.6	5,772.7
Bobtail-S	553	70.9	0.0	0.0	953.3	0.0	0.1	189.1	0.0	0.0	1,213.4	0.0	0.1	1,213.4	0.5	26.6	1,240.5
Bobtail-L	553	0.0	0.0	0.0	850.7	0.0	0.1	0.0	0.0	0.0	850.7	0.0	0.1	850.7	0.3	17.8	868.8
Cargo Loader-S	572	0.0	0.0	0.0	45.2	0.0	0.0	4,308.5	0.0	0.1	4,353.7	0.0	0.1	4,353.7	0.0	35.3	4,389.1
Cargo Loader-L	572	0.0	0.0	0.0	586.5	0.0	0.0	2,095.3	0.1	0.0	2,681.9	0.1	0.0	2,681.9	1.3	9.7	2,692.8
Cargo Tractor-S	827	2,557.6	0.3	0.0	2,187.3	0.2	0.1	680.2	0.0	0.0	5,425.0	0.5	0.1	5,425.0	9.9	21.3	5,456.2
Cargo Tractor-L	827	4,546.8	0.6	0.0	6,490.4	0.2	0.5	302.3	0.0	0.0	11,339.5	0.7	0.5	11,339.5	15.3	148.0	11,502.7
Cart	582	23.6	0.0	0.0	12.0	0.0	0.0	109.2	0.0	0.0	144.8	0.0	0.0	144.8	0.4	1.2	146.4
Deicer	582	0.0	0.0	0.0	85.3	0.0	0.0	0.0	0.0	0.0	85.3	0.0	0.0	85.3	0.0	2.1	87.4
Fork Lift-S	469	482.3	0.1	0.0	63.2	0.0	0.0	24.0	0.0	0.0	569.5	0.1	0.0	569.5	1.2	1.5	572.2
Fork Lift-M	469	2,604.0	0.3	0.0	312.2	0.0	0.0	297.5	0.0	0.0	3,213.7	0.3	0.0	3,213.7	6.6	7.3	3,227.6
Fork Lift-L	469	755.2	0.1	0.0	0.0	0.0	0.0	449.5	0.0	0.0	1,204.7	0.1	0.0	1,204.7	1.9	0.0	1,206.6
Generator	443	0.0	0.0	0.0	235.6	0.0	0.0	344.2	0.0	0.0	579.8	0.0	0.0	579.8	0.7	3.6	584.1
GPU-S	582	2,079.1	1.1	0.0	772.3	0.0	0.0	3,902.2	0.1	0.0	6,753.6	1.2	0.0	6,753.6	25.5	14.7	6,793.7
GPU-L	582	0.0	0.0	0.0	0.0	0.0	0.0	1,975.8	0.1	0.0	1,975.8	0.1	0.0	1,975.8	1.1	0.0	1,976.9
Lift-S	500	497.7	0.0	0.3	1,616.0	0.1	0.0	719.4	0.0	0.0	2,833.1	0.1	0.4	2,833.1	2.1	114.4	2,949.6
Lift-L	500	314.5	0.1	0.0	724.2	0.0	0.0	445.8	0.0	0.0	1,484.6	0.1	0.0	1,484.6	1.9	14.9	1,501.5
Other-S	582	55.0	0.0	0.0	185.0	0.0	0.0	274.1	0.0	0.0	514.0	0.0	0.0	514.0	0.9	5.3	520.3
Other-L	582	0.0	0.0	0.0	1,693.8	0.1	0.2	1,153.5	0.0	0.0	2,847.3	0.1	0.2	2,847.3	2.2	50.2	2,899.7
Pass Stand	44	619.3	0.1	0.0	136.9	0.0	0.0	11.0	0.0	0.0	767.3	0.1	0.0	767.3	1.5	2.3	771.0
Sweeper	443	15.0	0.0	0.0	65.0	0.0	0.0	12.6	0.0	0.0	92.5	0.0	0.0	92.5	0.1	0.2	92.8
Catering Truck	582	32.8	0.0	0.0	175.0	0.0	0.0	163.3	0.0	0.0	371.1	0.0	0.0	371.1	0.1	0.0	371.3
Fuel Truck	582	32.6	0.0	0.0	68.6	0.0	0.0	114.2	0.0	0.0	215.4	0.0	0.0	215.4	0.1	0.0	215.5
Hydrant Truck	582	0.0	0.0	0.0	128.8	0.0	0.0	64.3	0.0	0.0	193.1	0.0	0.0	193.1	0.1	0.0	193.2
Lavatory Truck	582	0.0	0.0	0.0	376.0	0.0	0.0	36.4	0.0	0.0	412.4	0.0	0.0	412.4	0.1	0.0	412.5
Service Truck	582	0.0	0.0	0.0	0.0	0.0	0.0	123.2	0.0	0.0	123.2	0.0	0.0	123.2	0.0	0.0	123.3
Water Truck	582	0.0	0.0	0.0	81.8	0.0	0.0	6.4	0.0	0.0	88.1	0.0	0.0	88.1	0.0	0.0	88.2
Other ORE	582	0.0	0.0	0.0	0.0	0.0	0.0	34.8	0.0	0.0	34.8	0.0	0.0	34.8	0.0	0.0	34.8
<b>Total</b>	<b>19,994</b>	<b>14,914.0</b>	<b>2.6</b>	<b>0.5</b>	<b>28,506.0</b>	<b>1.2</b>	<b>1.2</b>	<b>34,711.4</b>	<b>0.7</b>	<b>0.3</b>	<b>78,131.4</b>	<b>4.5</b>	<b>2.0</b>	<b>78,131.4</b>	<b>94.7</b>	<b>611.6</b>	<b>78,837.7</b>

Table 71  
Emission Factors

2009 SPAS Off-road GSE Efs (g/hp-hr) Aged Ef = (ZH + DR x Hrs-cum) x FCF

LPG	Power (hp)	CO2	CH4	N2O	Count	Gasoline	Power (hp)	CO2	CH4	N2O	Count	Diesel	Power (hp)	CO2	CH4	N2O	Count
Cart	30	674.66	0.80	0.00	2	Cart	24	429.44	0.13	0.16	2	Fork Lift-S	45	568.30	0.02	0.00	2
Fork Lift-S	45	674.66	0.12	0.00	34	Fork Lift-S	43	783.30	0.03	0.07	4	Sweeper	50	568.30	0.02	0.00	1
Sweeper	50	674.66	0.36	0.00	1	Sweeper	47	783.30	0.03	0.06	4	Cart	55	568.30	0.03	0.00	6
Fork Lift-M	78	674.66	0.12	0.00	106	Other-S	59	774.50	0.08	0.11	7	Belt Loader	68	568.30	0.03	0.00	42
Lift-S	87	674.66	0.44	0.00	17	Fork Lift-M	78	774.50	0.03	0.07	11	Other-S	69	568.30	0.03	0.00	12
Bobtail-S	95	674.66	0.22	0.00	2	Cargo Tractor-S	95	774.50	0.07	0.08	36	Bag Tractor	70	568.30	0.05	0.00	55
Cargo Tractor-S	104	674.66	0.31	0.00	44	Cargo Loader-S	102	774.50	0.02	0.05	1	Fork Lift-M	80	568.30	0.02	0.00	14
Aircraft Tractor-S	112	674.66	0.80	0.00	1	Belt Loader	105	774.50	0.02	0.04	94	Cargo Tractor-S	85	568.30	0.05	0.00	17
Bag Tractor	113	674.66	0.72	0.00	2	GPU-S	107	774.50	0.02	0.05	16	Cargo Loader-S	96	568.30	0.05	0.00	138
Pass Stand	120	674.66	0.34	0.00	173	Bag Tractor	108	774.50	0.02	0.06	79	Lift-S	106	568.30	0.05	0.00	24
Other-S	140	674.66	0.80	0.00	1	Lift-S	110	774.50	0.06	0.08	38	Pass Stand	109	568.30	0.04	0.00	4
Belt Loader	153	674.66	0.32	0.00	1	Generator	114	774.50	0.14	0.11	6	Generator	124	568.30	0.06	0.00	11
GPU-S	156	674.66	0.80	0.00	34	Bobtail-S	135	753.25	0.02	0.06	17	Air Cond-S	128	568.30	0.03	0.00	5
Cargo Tractor-L	160	674.66	0.31	0.00	51	Cargo Tractor-L	141	753.25	0.07	0.08	74	Aircraft Tractor-S	130	568.30	0.04	0.00	19
Fork Lift-L	183	674.66	0.12	0.00	13	Other-L	143	753.25	0.08	0.11	27	Bobtail-S	150	568.30	0.06	0.00	4
Lift-L	187	674.66	0.44	0.00	5	Pass Stand	152	753.25	0.02	0.07	27	GPU-S	157	568.30	0.05	0.00	75
Air Cond-L						Deicer	200	732.00	0.06	0.10	1	Other-L	158	568.30	0.03	0.00	22
Air Cond-S						Cargo Loader-L	200	732.00	0.02	0.05	7	Cargo Tractor-L	161	568.30	0.05	0.00	4
Air Start-L						Aircraft Tractor-M	200	732.00	0.04	0.09	2	Cargo Loader-L	179	568.30	0.05	0.00	36
Air Start-S						Bobtail-L	233	732.00	0.02	0.06	9	Lift-L	196	568.30	0.05	0.00	8
Aircraft Tractor-L						Lift-L	248	732.00	0.06	0.08	8	Aircraft Tractor-M	209	568.30	0.04	0.00	125
Aircraft Tractor-M						Air Cond-L						Fork Lift-L	211	568.30	0.02	0.00	8
Bobtail-L						Air Cond-S						Air Cond-L	244	568.30	0.03	0.00	3
Cargo Loader-L						Air Start-L						GPU-L	284	568.30	0.05	0.00	21
Cargo Loader-S						Air Start-S						Air Start-S	375	568.30	0.02	0.00	27
Deicer						Aircraft Tractor-L						Aircraft Tractor-L	432	568.30	0.04	0.00	13
Generator						Aircraft Tractor-S						Air Start-L	576	568.30	0.03	0.00	5
GPU-L						Fork Lift-L						Bobtail-L					
Other-L						GPU-L						Deicer					

2009 SPAS Onroad GSE Efs (g/hp-hr)

LPG	Power (hp)	CO2	CH4	N2O	Count	Gasoline	Power (hp)	CO2	CH4	N2O	Count	Diesel	Power (hp)	CO2	CH4	N2O	Count
Catering Truck	210	99.461	0.0048	0.00	4	Catering Truck	207	100.909	0.0049	0.00	17	Catering Truck	190	41.81	0.0015	0.00	41
Fuel Truck	117.50	177.761	0.0086	0.00	2	Fuel Truck	139	150.735	0.0073	0.00	6	Fuel Truck	144	55.46	0.0020	0.00	28
Hydrant Truck						Hydrant Truck	102	204.409	0.0098	0.00	11	Hydrant Truck	131	60.75	0.0022	0.00	15
Lavatory Truck						Lavatory Truck	151	138.397	0.0067	0.00	35	Lavatory Truck	150	52.91	0.0019	0.00	9
Service Truck						Service Truck						Service Truck	206	38.68	0.0014	0.00	30
Water Truck						Water Truck	160	130.194	0.0063	0.00	7	Water Truck	135	58.95	0.0021	0.00	1
Other ORE						Other ORE						Other ORE	172	46.24	0.0017	0.00	9

Equipment	Activity (hrs/yr)	Load Factor
Air Cond-S	443.43	0.34
Air Cond-L	443.43	0.34
Air Start-S	443.43	0.34
Air Start-L	443.43	0.34
Aircraft Tractor-S	300.59	0.54
Aircraft Tractor-M	365.13	0.54
Aircraft Tractor-L	365.13	0.54
Bag Tractor	669.47	0.37
Belt Loader	468.44	0.34
Bobtail-S	421.31	0.37
Bobtail-L	421.31	0.37
Cargo Loader-S	435.74	0.34
Cargo Loader-L	435.74	0.34
Cargo Tractor-S	629.56	0.36
Cargo Tractor-L	629.56	0.36
Cart	443.43	0.34
Catering Truck	443.43	0.34
Deicer	443.43	0.34
Fork Lift-S	357.34	0.20
Fork Lift-M	357.34	0.20
Fork Lift-L	357.34	0.20
Fuel Truck	443.43	0.34
Generator	443.43	0.34
GPU-S	443.43	0.34
GPU-L	443.43	0.34
Hydrant Truck	443.43	0.34
Lavatory Truck	443.43	0.34
Lift-S	380.43	0.34
Lift-L	380.43	0.34
Other-S	443.43	0.34
Other-L	443.43	0.34
Pass Stand	33.67	0.40
Service Truck	443.43	0.34
Sweeper	443.43	0.34
Water Truck	443.43	0.34
Other ORE	443.43	0.34

Table 72  
Emission Factors

2025 SPAS Off-road GSE Efs (g/hp-hr) Aged Ef = (ZH + DR x Hrs-cum) x FCF

LPG	Power (hp)	CO2	CH4	N2O	Count	Gasoline	Power (hp)	CO2	CH4	N2O	Count	Diesel	Power (hp)	CO2	CH4	N2O	Count
Cart	30	674.66	0.36	0.00	2	Cart	24	429.44	0.10	0.14	2	Fork Lift-S	45	568.30	0.01	0.00	2
Fork Lift-S	45	674.66	0.08	0.00	34	Fork Lift-S	43	783.30	0.02	0.06	4	Sweeper	50	568.30	0.00	0.00	1
Sweeper	50	674.66	0.11	0.00	1	Sweeper	47	783.30	0.04	0.01	4	Cart	55	568.30	0.01	0.00	6
Fork Lift-M	78	674.66	0.08	0.00	106	Other-S	59	774.50	0.03	0.07	7	Belt Loader	68	568.30	0.00	0.01	42
Lift-S	87	674.66	0.00	0.44	17	Fork Lift-M	78	774.50	0.02	0.06	11	Other-S	69	568.30	0.01	0.00	12
Bobtail-S	95	674.66	0.00	0.22	2	Cargo Tractor-S	95	774.50	0.06	0.02	36	Bag Tractor	70	568.30	0.00	0.02	55
Cargo Tractor-S	104	674.66	0.08	0.00	44	Cargo Loader-S	102	774.50	0.04	0.01	1	Fork Lift-M	80	568.30	0.01	0.00	14
Aircraft Tractor-S	112	674.66	0.36	0.00	1	Belt Loader	105	774.50	0.04	0.01	94	Cargo Tractor-S	85	568.30	0.00	0.01	17
Bag Tractor	113	674.66	0.00	0.72	2	GPU-S	107	774.50	0.01	0.05	16	Cargo Loader-S	96	568.30	0.00	0.01	138
Pass Stand	120	674.66	0.07	0.00	173	Bag Tractor	108	774.50	0.05	0.01	79	Lift-S	106	568.30	0.00	0.01	24
Other-S	140	674.66	0.36	0.00	1	Lift-S	110	774.50	0.05	0.01	38	Pass Stand	109	568.30	0.00	0.01	4
Belt Loader	153	674.66	0.11	0.00	1	Generator	114	774.50	0.07	0.04	6	Generator	124	568.30	0.02	0.00	11
GPU-S	156	674.66	0.36	0.00	34	Bobtail-S	135	753.25	0.01	0.05	17	Air Cond-S	128	568.30	0.01	0.00	5
Cargo Tractor-L	160	674.66	0.08	0.00	51	Cargo Tractor-L	141	753.25	0.02	0.06	74	Aircraft Tractor-S	130	568.30	0.02	0.00	19
Fork Lift-L	183	674.66	0.08	0.00	13	Other-L	143	753.25	0.03	0.07	27	Bobtail-S	150	568.30	0.02	0.00	4
Lift-L	187	674.66	0.14	0.00	5	Pass Stand	152	753.25	0.01	0.04	27	GPU-S	157	568.30	0.02	0.00	75
Air Cond-L						Deicer	200	732.00	0.02	0.06	1	Other-L	158	568.30	0.01	0.00	22
Air Cond-S						Cargo Loader-L	200	732.00	0.01	0.04	7	Cargo Tractor-L	161	568.30	0.01	0.00	4
Air Start-L						Aircraft Tractor-M	200	732.00	0.02	0.05	2	Cargo Loader-L	179	568.30	0.01	0.00	36
Air Start-S						Bobtail-L	233	732.00	0.01	0.05	9	Lift-L	196	568.30	0.01	0.00	8
Aircraft Tractor-L						Lift-L	248	732.00	0.01	0.05	8	Aircraft Tractor-M	209	568.30	0.02	0.00	125
Aircraft Tractor-M						Air Cond-L						Fork Lift-L	211	568.30	0.01	0.00	8
Bobtail-L						Air Cond-S						Air Cond-L	244	568.30	0.01	0.00	3
Cargo Loader-L						Air Start-L						GPU-L	284	568.30	0.02	0.00	21
Cargo Loader-S						Air Start-S						Air Start-S	375	568.30	0.00	0.01	27
Deicer						Aircraft Tractor-L						Aircraft Tractor-L	432	568.30	0.02	0.00	13
Generator						Aircraft Tractor-S						Air Start-L	576	568.30	0.00	0.01	5
GPU-L						Fork Lift-L						Bobtail-L					
Other-L						GPU-L						Deicer					

2025 SPAS Onroad GSE Efs (g/hp-hr)

LPG	Power (hp)	CO2	CH4	N2O	Count	Gasoline	Power (hp)	CO2	CH4	N2O	Count	Diesel	Power (hp)	CO2	CH4	N2O	Count
Catering Truck	210	89.52	0.0013	0.00	3	Catering Truck	207	90.82	0.0013	0.00	16	Catering Truck	190	36.91	0.0007	0.00	40
Fuel Truck	175.00	159.98	0.0023	0.00	2	Fuel Truck	145	135.66	0.0019	0.00	6	Fuel Truck	143	48.96	0.0009	0.00	28
Hydrant Truck						Hydrant Truck	109	183.97	0.0026	0.00	11	Hydrant Truck	137	53.64	0.0010	0.00	15
Lavatory Truck						Lavatory Truck	148	124.56	0.0018	0.00	35	Lavatory Truck	149	46.71	0.0009	0.00	9
Service Truck						Service Truck						Service Truck	206	34.15	0.0007	0.00	30
Water Truck						Water Truck	171	117.17	0.0017	0.00	7	Water Truck	210	52.05	0.0010	0.00	1
Other ORE						Other ORE						Other ORE	163	40.82	0.0008	0.00	9

Equipment	2025 Adjusted Activity (hrs/hr)	
Air Cond-S	582	A
Air Cond-L	582	A
Air Start-S	582	A
Air Start-L	582	A
Aircraft Tractor-S	395	A
Aircraft Tractor-M	480	A
Aircraft Tractor-L	480	A
Bag Tractor	879	A
Belt Loader	615	A
Bobtail-S	553	A
Bobtail-L	553	A
Cargo Loader-S	572	A
Cargo Loader-L	572	A
Cargo Tractor-S	827	A
Cargo Tractor-L	827	A
Cart	582	A
Catering Truck	582	A
Deicer	582	A
Fork Lift-S	469	A
Fork Lift-M	469	A
Fork Lift-L	469	A
Fuel Truck	582	A
Generator	443	x
GPU-S	582	A
GPU-L	582	A
Hydrant Truck	582	A
Lavatory Truck	582	A
Lift-S	500	A
Lift-L	500	A
Other-S	582	A
Other-L	582	A
Pass Stand	44	A
Service Truck	582	A
Sweeper	443	x
Water Truck	582	A
Other ORE	582	A

A = aircraft ratio  
x = no adjustment

Ratios to convert 2009 Activity (hrs/yr) to 2025 Activity:  
Aircraft operations  
Ratio of peak daily aircraft operations from SIMMOD for 2025 and 2009

Table 73  
LAX SPAS  
Construction Emissions by Area and Project Total (Alts 1 - 9)  
January 25, 2012

Area	Airside/Landside	Alt 1 Emissions (tons)				Alt 2 Emissions (tons)				Alt 3 Emissions (tons)				Alt 4 Emissions (tons)				Alt 5 Emissions (tons)				Alt 6 Emissions (tons)				Alt 7 Emissions (tons)				Alt 8 Emissions (tons)				Alt 9 Emissions (tons)							
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e				
West Employee Parking Structure [12,000 Spaces]	Landside	0	0	0	0	0	0	0	0	3,018	0	0	3,046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intermodal Center/Parking Structure	Landside	2,150	0	0	2,169	2,150	0	0	2,169	3,811	0	0	3,846	3,260	0	0	3,290	0	0	0	0	0	0	0	0	0	0	0	0	2,150	0	0	2,169	2,150	0	0	2,169				
Surface Parking	Landside	10,080	1	0	10,172	10,080	1	0	10,172	6,944	0	0	7,007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,360	0	0	3,391	6,720	0	0	6,781				
Demo CTA Parking Structures	Landside	0	0	0	0	0	0	0	0	9,919	1	0	10,010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
RAC Consolidated Center	Landside	0	0	0	0	0	0	0	0	30,081	2	1	30,356	30,081	2	1	30,356	0	0	0	0	0	0	0	0	0	0	0	0	18,544	1	0	18,713	18,544	1	0	18,713				
CTA Landside Terminals	Landside	0	0	0	0	0	0	0	0	24,231	1	1	24,452	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
People Mover/Busway	Landside	5,331	0	0	5,380	5,331	0	0	5,380	51,585	3	1	52,056	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,331	0	0	5,380	12,840	1	0	12,957				
Ground Transportation Center (GTC)	Landside	0	0	0	0	0	0	0	0	26,314	2	1	26,554	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Offsite Utilities	Landside	7,307	0	0	7,373	7,307	0	0	7,373	7,307	0	0	7,373	1,827	0	0	1,843	0	0	0	0	0	0	0	0	0	0	0	0	7,307	0	0	7,373	7,307	0	0	7,373				
Offsite Roadway Improvements	Landside	19,779	1	1	19,959	19,779	1	1	19,959	19,779	1	1	19,959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19,779	1	1	19,959	19,779	1	1	19,959				
GTC to IMC Roadways & Century Bridge/Sky Way Realignment	Landside	4,896	0	0	4,941	4,896	0	0	4,941	17,733	1	0	17,895	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,896	0	0	4,941	4,896	0	0	4,941				
N Airfield Ancillary Facs - Police Sta, Med Bldg	Airside	12,940	1	0	13,058	3,723	0	0	3,757	9,881	1	0	9,971	582	0	0	587	14,634	1	0	14,768	11,185	1	0	11,287	9,488	1	0	9,575	0	0	0	0	0	0	0	0				
North CTA Concourses	Airside	4,194	0	0	4,232	4,194	0	0	4,232	18,048	1	0	18,213	0	0	0	0	3,867	0	0	3,903	4,194	0	0	4,232	3,584	0	0	3,616	0	0	0	0	0	0	0	0				
North CTA Aprons & Taxiways	Airside	4,664	0	0	4,706	4,664	0	0	4,706	20,071	1	1	20,254	0	0	0	0	4,301	0	0	4,340	4,664	0	0	4,706	3,985	0	0	4,022	0	0	0	0	0	0	0	0				
Misc.	Airside	5,358	0	0	5,407	1,541	0	0	1,556	4,091	0	0	4,129	241	0	0	243	6,060	0	0	6,115	4,632	0	0	4,674	3,929	0	0	3,965	0	0	0	0	0	0	0	0				
Runway 24L & South Parallel Taxiways	Airside	60,018	3	2	60,567	17,267	1	0	17,424	45,829	3	1	46,248	2,697	0	0	2,722	67,879	4	2	68,499	51,880	3	1	52,355	44,008	3	1	44,410	0	0	0	0	0	0	0	0				
Center Taxiway for 24 L-4	Airside	45,013	3	1	45,424	12,950	1	0	13,068	34,371	2	1	34,685	2,023	0	0	2,041	50,908	3	1	51,374	38,910	2	1	39,265	33,005	2	1	33,307	0	0	0	0	0	0	0	0				
Support	Airside	212,979	12	5	214,914	61,272	3	2	61,829	162,628	9	4	164,106	9,571	1	0	9,658	240,875	14	6	243,063	184,102	11	5	185,775	156,166	9	4	157,584	0	0	0	0	0	0	0	0				
<b>Program Total (tons)</b>		<b>394,707</b>	<b>23</b>	<b>10</b>	<b>398,303</b>	<b>155,152</b>	<b>9</b>	<b>4</b>	<b>156,566</b>	<b>495,639</b>	<b>28</b>	<b>13</b>	<b>500,161</b>	<b>50,281</b>	<b>3</b>	<b>1</b>	<b>50,740</b>	<b>388,525</b>	<b>22</b>	<b>10</b>	<b>392,063</b>	<b>299,566</b>	<b>17</b>	<b>8</b>	<b>302,294</b>	<b>254,164</b>	<b>15</b>	<b>6</b>	<b>256,479</b>	<b>61,366</b>	<b>4</b>	<b>2</b>	<b>61,927</b>	<b>72,235</b>	<b>4</b>	<b>2</b>	<b>72,895</b>				
Ratio of Emissions to Alt 3		0.80	0.80	0.80	0.80	0.31	0.31	0.31	0.31	1.00	1.00	1.00	1.00	0.10	0.10	0.10	0.10	0.78	0.78	0.78	0.78	0.60	0.60	0.60	0.60	0.51	0.51	0.51	0.51	0.12	0.12	0.12	0.12	0.15	0.15	0.15	0.15				
Ratio of Emissions to Alt D		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				

Airside	345,165	20	9	348,308	105,609	6	3	106,571	294,919	17	8	297,605	15,113	1	0	15,251	388,525	22	10	392,063	299,566	17	8	302,294	254,164	15	6	256,479	0	0	0	0	0	0	0	
Landside	49,542	3	1	49,995	49,542	3	1	49,995	200,720	11	5	202,555	35,167	2	1	35,489	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total	394,707	23	10	398,303	155,152	9	4	156,566	495,639	28	13	500,161	50,281	3	1	50,740	388,525	22	10	392,063	299,566	17	8	302,294	254,164	15	6	256,479	61,366	4	2	61,927	72,235	4	2	72,895
Amortized	13,157	1	0	13,277	5,172	0	0	5,219	16,521	1	0	16,672	1,676	0	0	1,691	12,951	1	0	13,069	9,986	1	0	10,076	8,472	0	0	8,549	2,046	0	0	2,064	2,408	0	0	2,430

Notes:  
1) Alts 1-9 emissions scaled to Alt D based by cost and land area ratios provided in planning document "LAX SPAS activities 31 October 2011.xls". Alt D based on Alternative D Construction Schedule version 21 May 2003.

